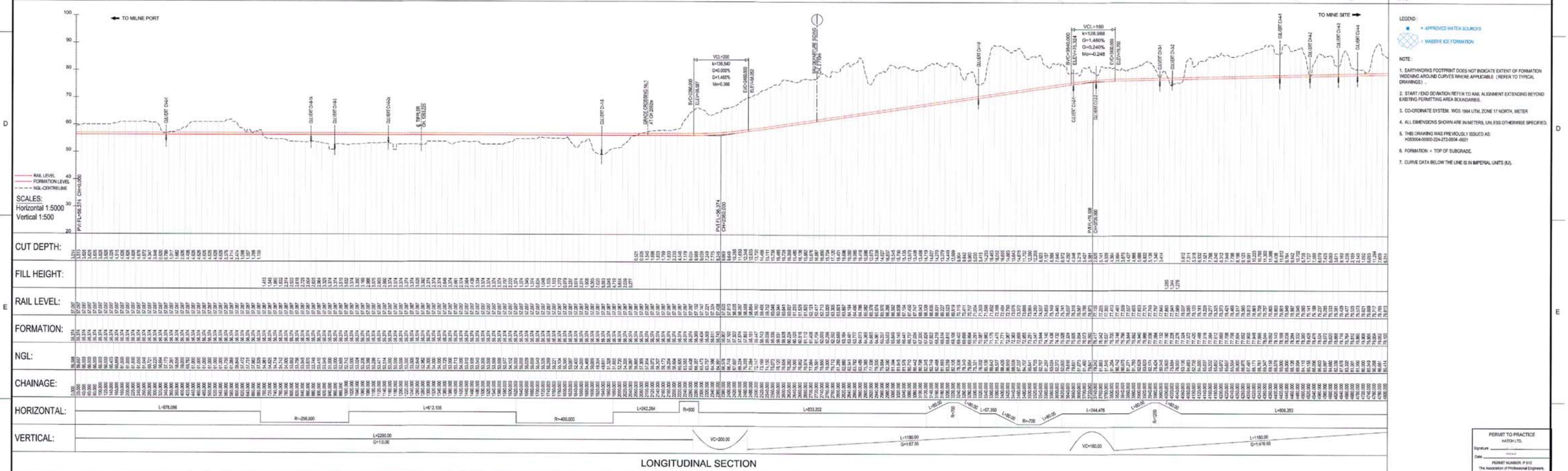
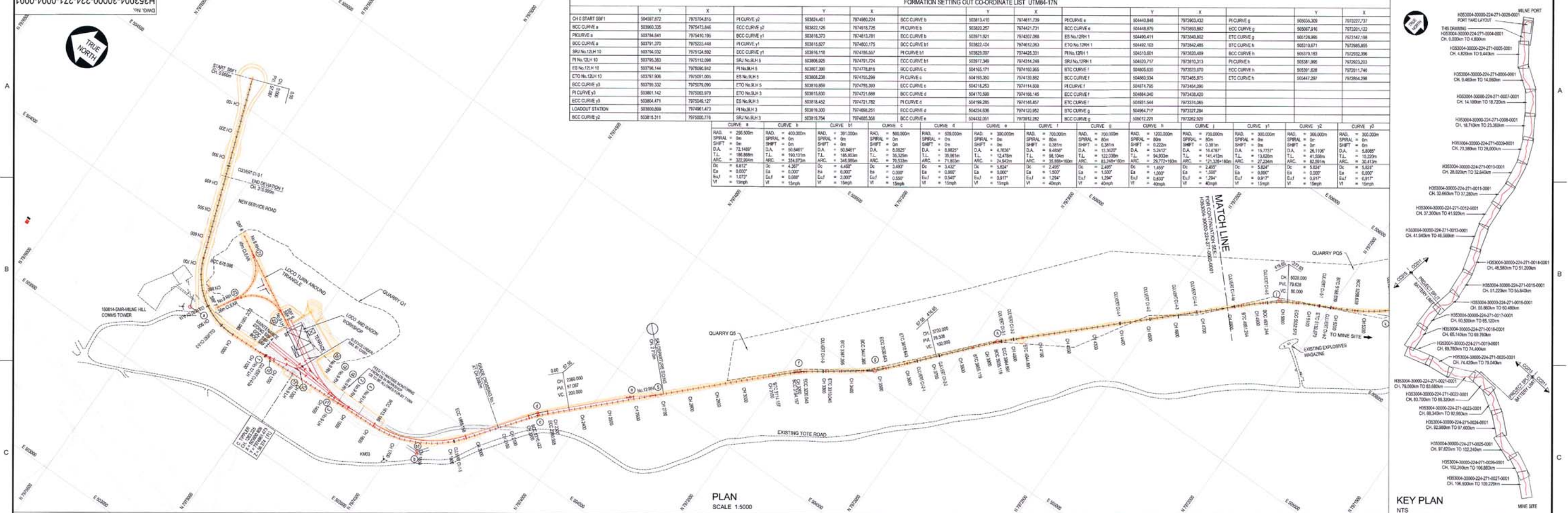
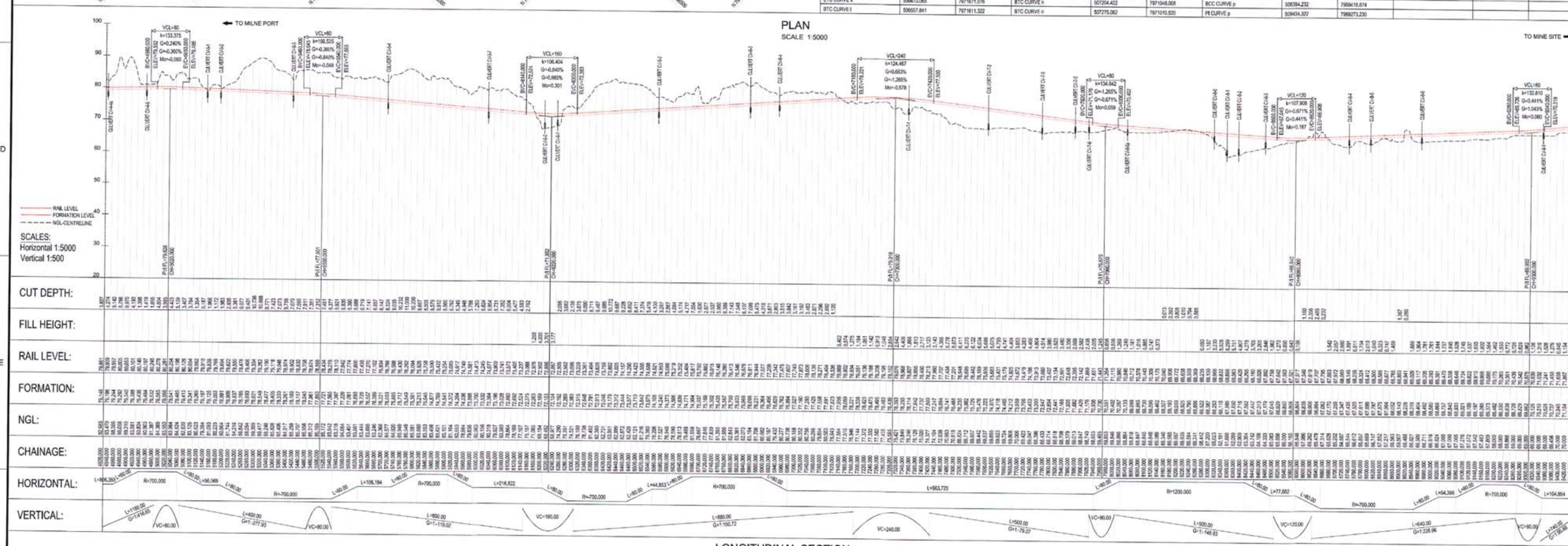
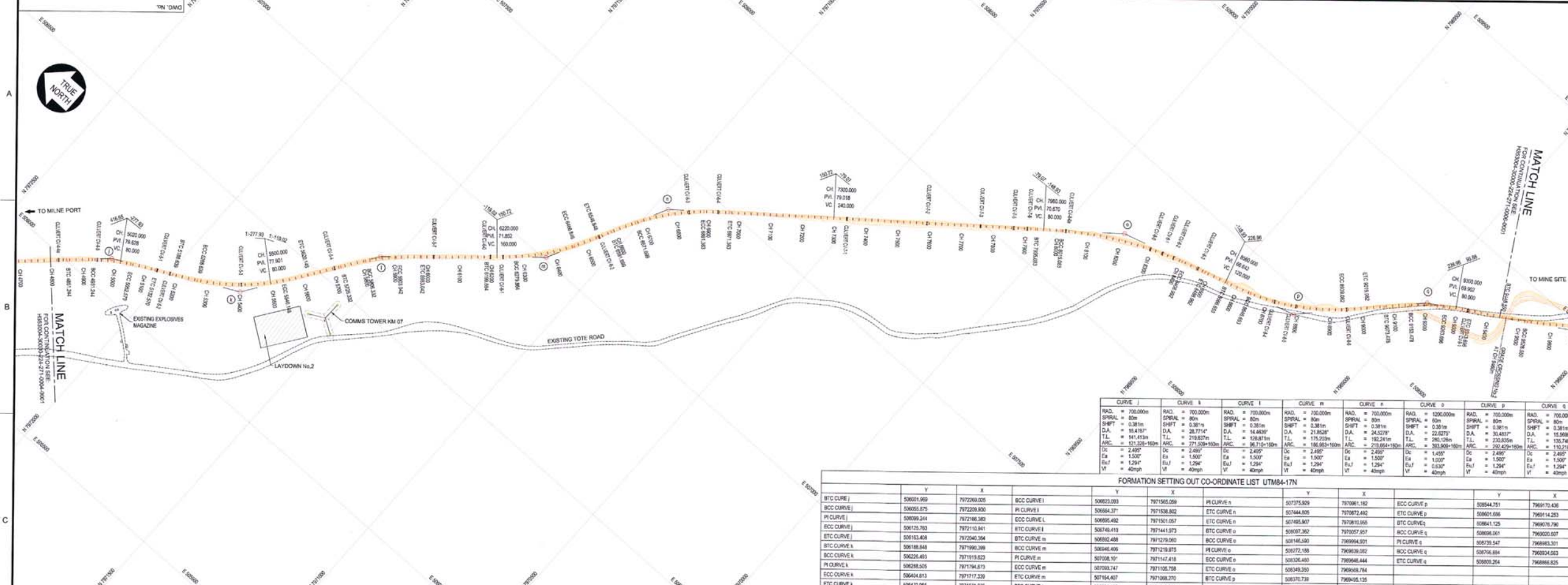


Attachment 11.3

North Railway Plan and Profile Drawings

(25 Pages)

[illegible]



STATION	RAIL LEVEL	FORMATION LEVEL	NGL	CUT DEPTH	FILL HEIGHT
CH 4800	78.86	78.86	78.86	0.00	0.00
CH 4900	78.86	78.86	78.86	0.00	0.00
CH 5000	78.86	78.86	78.86	0.00	0.00
CH 5100	78.86	78.86	78.86	0.00	0.00
CH 5200	78.86	78.86	78.86	0.00	0.00
CH 5300	78.86	78.86	78.86	0.00	0.00
CH 5400	78.86	78.86	78.86	0.00	0.00
CH 5500	78.86	78.86	78.86	0.00	0.00
CH 5600	78.86	78.86	78.86	0.00	0.00
CH 5700	78.86	78.86	78.86	0.00	0.00
CH 5800	78.86	78.86	78.86	0.00	0.00
CH 5900	78.86	78.86	78.86	0.00	0.00
CH 6000	78.86	78.86	78.86	0.00	0.00
CH 6100	78.86	78.86	78.86	0.00	0.00
CH 6200	78.86	78.86	78.86	0.00	0.00
CH 6300	78.86	78.86	78.86	0.00	0.00
CH 6400	78.86	78.86	78.86	0.00	0.00
CH 6500	78.86	78.86	78.86	0.00	0.00
CH 6600	78.86	78.86	78.86	0.00	0.00
CH 6700	78.86	78.86	78.86	0.00	0.00
CH 6800	78.86	78.86	78.86	0.00	0.00
CH 6900	78.86	78.86	78.86	0.00	0.00
CH 7000	78.86	78.86	78.86	0.00	0.00
CH 7100	78.86	78.86	78.86	0.00	0.00
CH 7200	78.86	78.86	78.86	0.00	0.00
CH 7300	78.86	78.86	78.86	0.00	0.00
CH 7400	78.86	78.86	78.86	0.00	0.00
CH 7500	78.86	78.86	78.86	0.00	0.00
CH 7600	78.86	78.86	78.86	0.00	0.00
CH 7700	78.86	78.86	78.86	0.00	0.00
CH 7800	78.86	78.86	78.86	0.00	0.00
CH 7900	78.86	78.86	78.86	0.00	0.00
CH 8000	78.86	78.86	78.86	0.00	0.00
CH 8100	78.86	78.86	78.86	0.00	0.00
CH 8200	78.86	78.86	78.86	0.00	0.00
CH 8300	78.86	78.86	78.86	0.00	0.00
CH 8400	78.86	78.86	78.86	0.00	0.00
CH 8500	78.86	78.86	78.86	0.00	0.00
CH 8600	78.86	78.86	78.86	0.00	0.00
CH 8700	78.86	78.86	78.86	0.00	0.00
CH 8800	78.86	78.86	78.86	0.00	0.00
CH 8900	78.86	78.86	78.86	0.00	0.00
CH 9000	78.86	78.86	78.86	0.00	0.00
CH 9100	78.86	78.86	78.86	0.00	0.00
CH 9200	78.86	78.86	78.86	0.00	0.00
CH 9300	78.86	78.86	78.86	0.00	0.00
CH 9400	78.86	78.86	78.86	0.00	0.00

KEY PLAN

NTS

LEGEND

- RAIL ALIGNMENT
- APPROVED WATER SOURCES
- MASSIVE ICE FORMATION

NOTE

- EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WORKING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS).
- START / END DATUMS REFER TO RAIL ALIGNMENT EXTENDING BEYOND EXISTING PERMITTING AREA BOUNDARIES.
- COORDINATE SYSTEM: WGS 1984 UTM ZONE 17 NORTH, METERS.
- ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
- THIS DRAWING WAS PREVIOUSLY ISSUED AS: H353004-30000-224-271-0005-0001
- FORMATION = TOP OF SUBGRADE.
- CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (U.S.).

PERMIT TO PRACTICE

Signature: _____

Date: _____

PERMIT NUMBER: P-910

The Association of Professional Engineers and Geoscientists of BC

HATCH

Baffinland

BAFFINLAND IRON MINES LP

MARY RIVER PROJECT

RAIL SITE

PLAN AND LONGITUDINAL SECTION

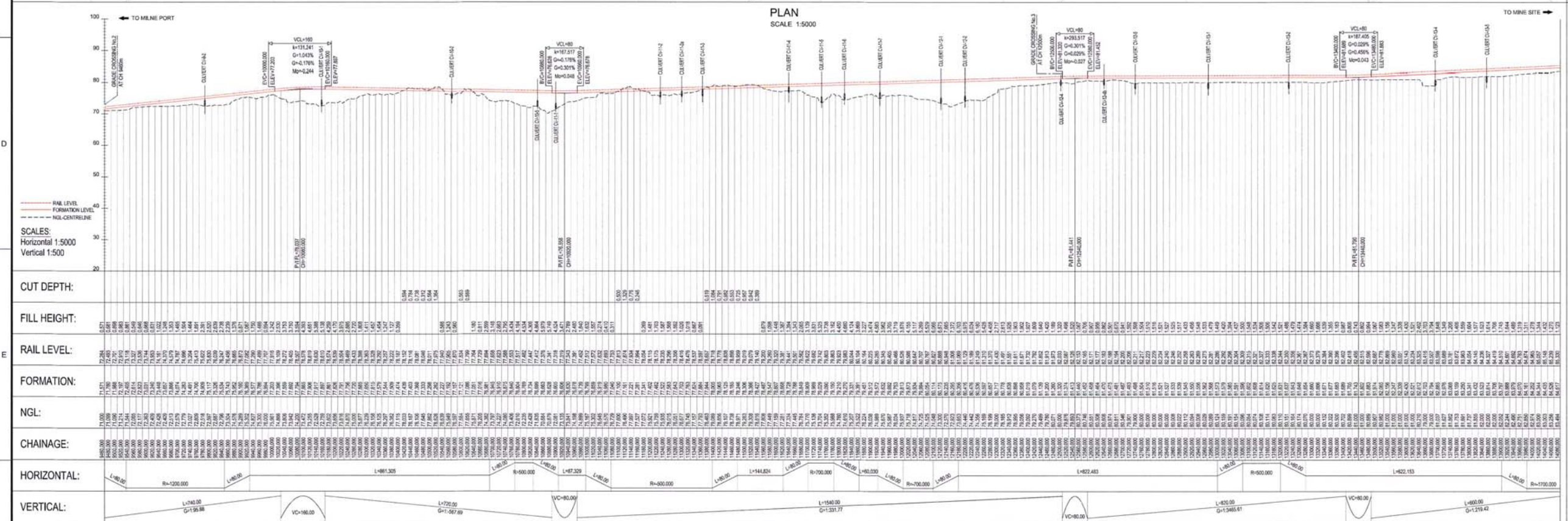
CH. 4+820 TO CH. 9+440

SCALE: 1:5000

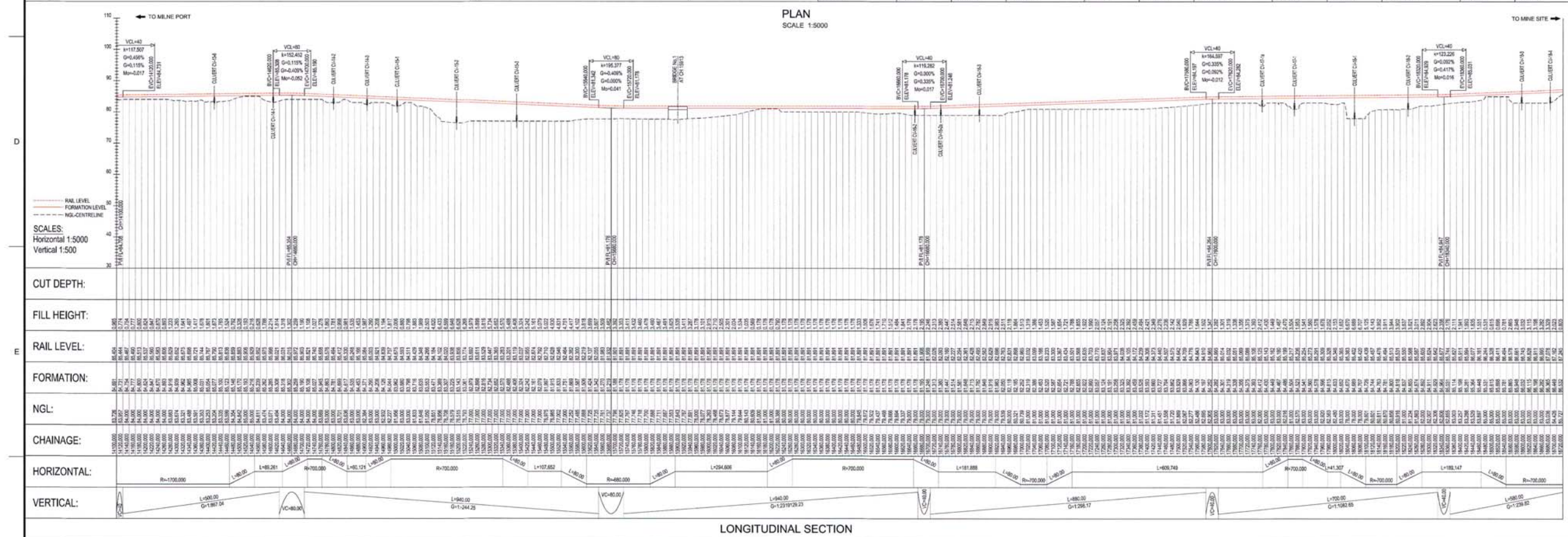
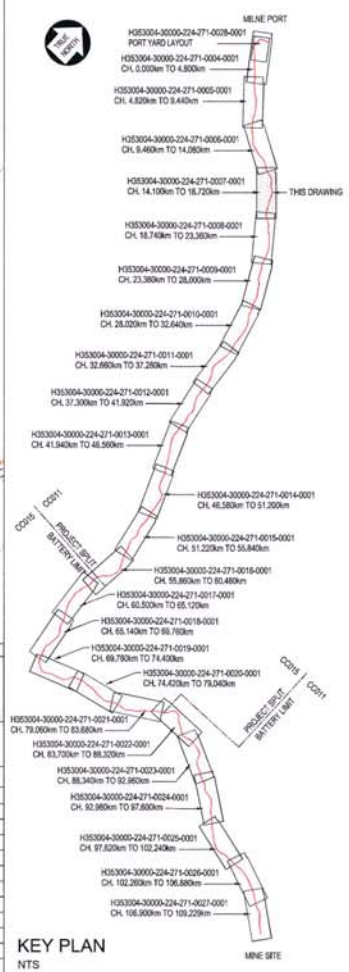
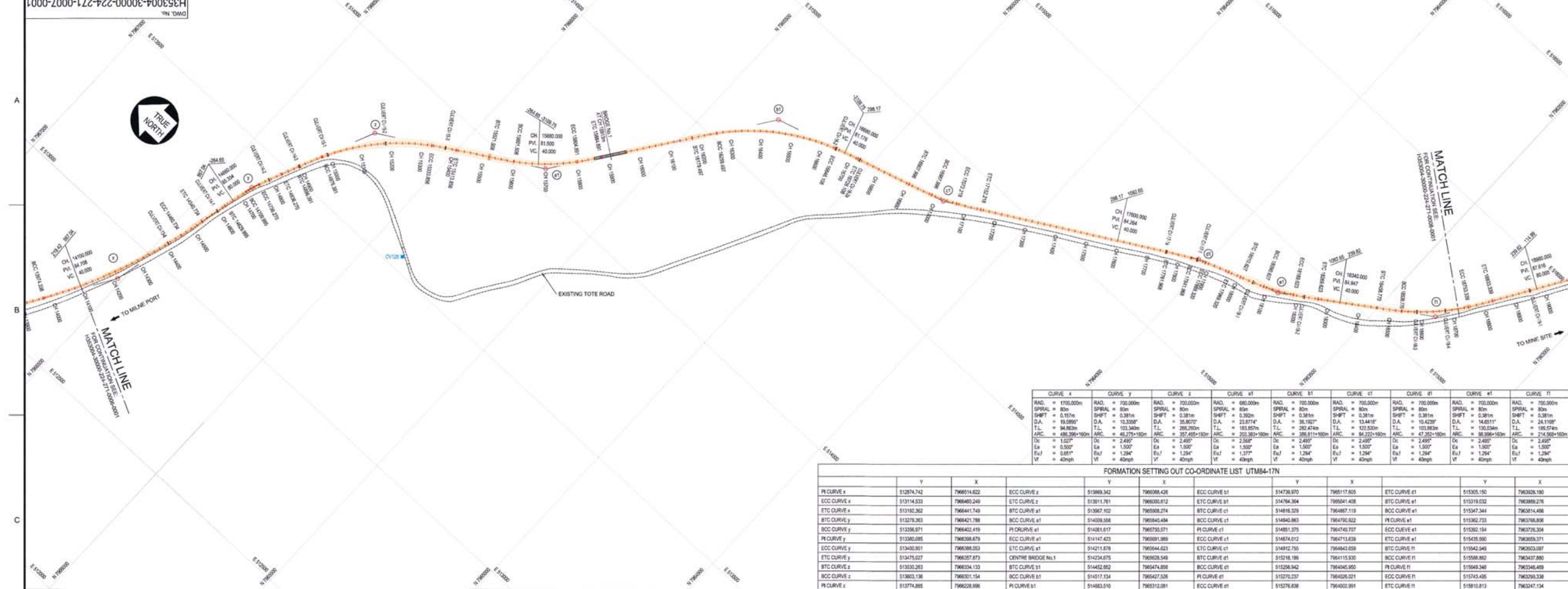
DWG. No. H353004-30000-224-271-0005-0001

REV: 0

SHEET SIZE: A



HATCH		Baffinland	
DESIGNER: A. VAN NIEKERK		RAIL SITE	
CHECKER: G. JOHNSTONE		PLAN AND LONGITUDINAL SECTION	
DESIGN COORD: G. JOHNSTONE		CH. 14+00 TO CH. 14+460	
RESP. ENG: R. HALL		SCALE: 1:5000	
LEAD DISC. ENG: F. VAN BILJON		DWG. NO.: H353004-30000-224-271-0006-0001	
AREA LEAD: F. VAN BILJON		REV: 0	
ENG. MANAGER: F. VAN BILJON		DATE: 2017/01/04	
AREA MANAGER: F. VAN BILJON		BY: CHD	
ROLE: NAME		DATE: 2017/01/07	
DRAWING APPROVAL STATUS: Approved for Construction		SHEET SIZE: A0	



LEGEND

★ APPROVED WATER SOURCE

○ MASSIVE ICE FORMATION

NOTE:

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WEDGING AROUND CURVES WHERE APPLICABLE. (REFER TO TYPICAL DRAINAGES)
2. START/END DEVIATION REFERS TO RAIL ALIGNMENT EXTENDING BEYOND EXISTING PERMITTING AREA BOUNDARIES.
3. CO-ORDINATE SYSTEM: WGS 1984 UTM, ZONE 17 NORTH, METER
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
5. THIS DRAWING WAS PREVIOUSLY ISSUED AS:
HIS0004-00000-020-072-007-0001
6. FORMATION = TOP OF SUBGRADE.
7. CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (Ft.).

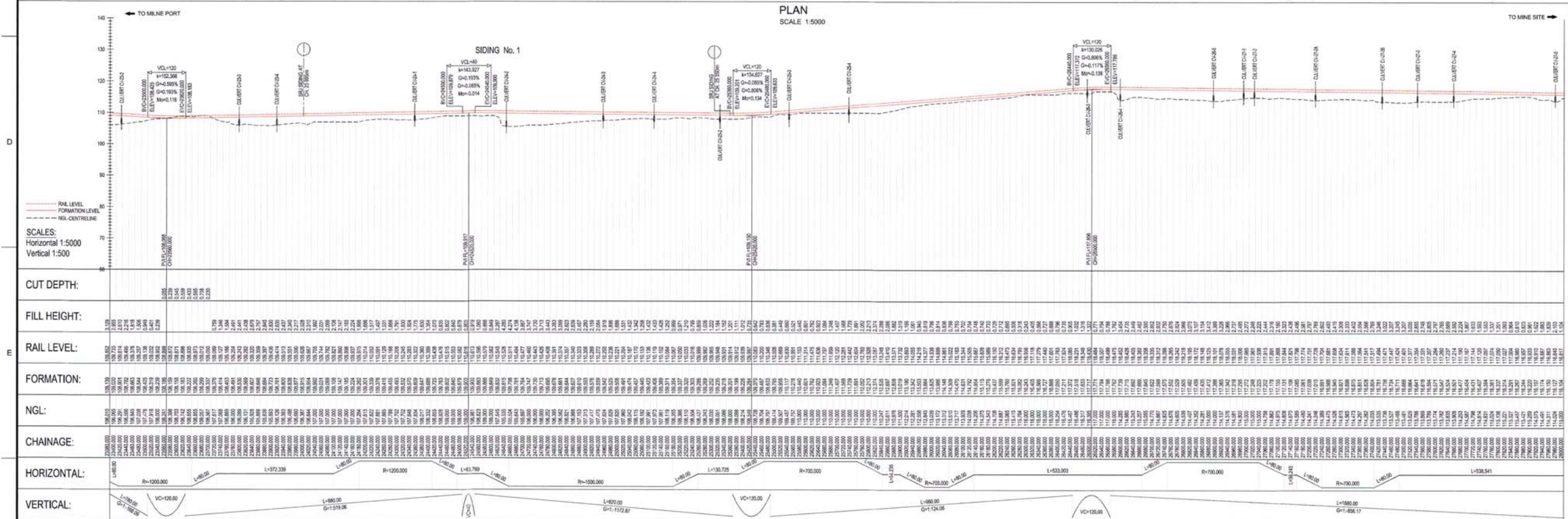
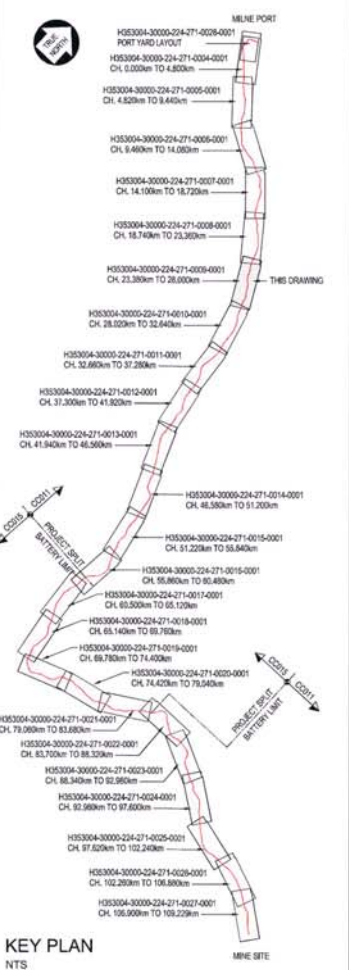
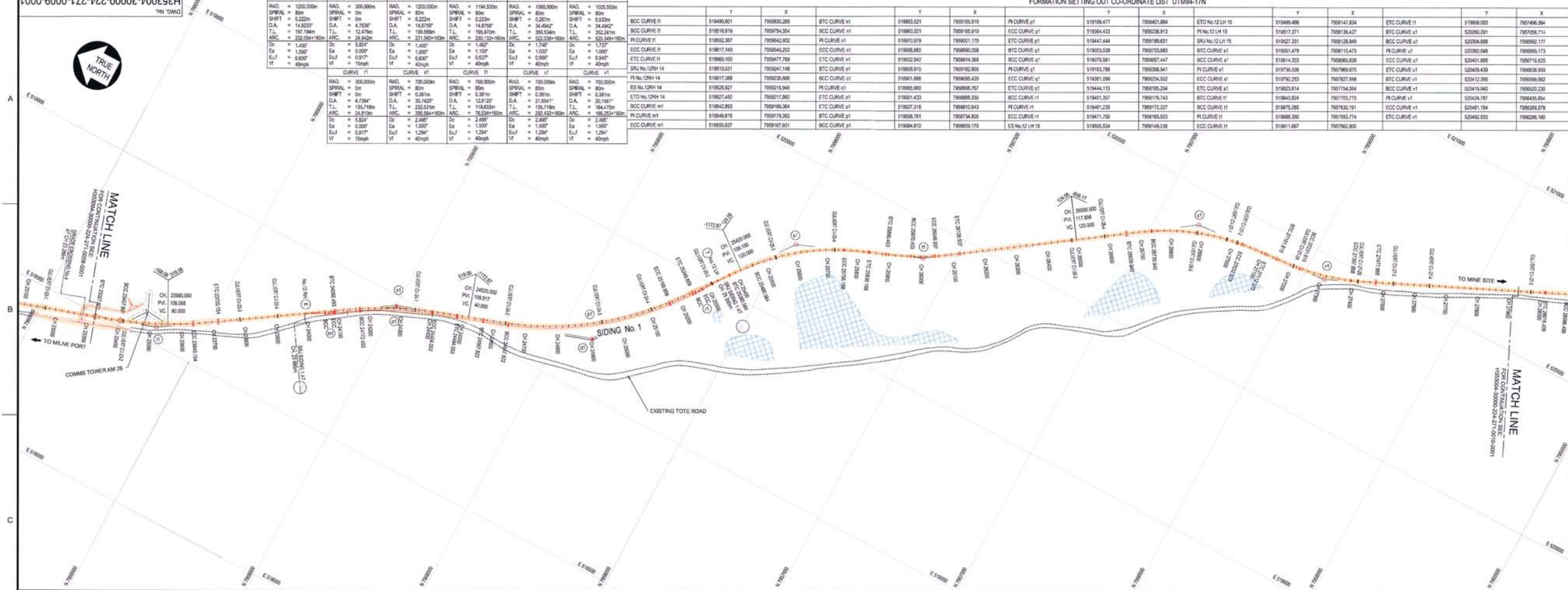
F		
	H353004-35000-232-272-0001-0001	BRIDGE GENERAL LAYOUT
	H353004-30000-224-271-0008-0001	PLAN AND LONGITUDINAL SECTION - CH. 18+740 TO CH. 23+360
	H353004-30000-224-271-0006-0001	PLAN AND LONGITUDINAL SECTION - CH. 9+460 TO CH. 14+060
	DRAWING No.	DRAWING TITLE
	REFERENCE DRAWINGS	

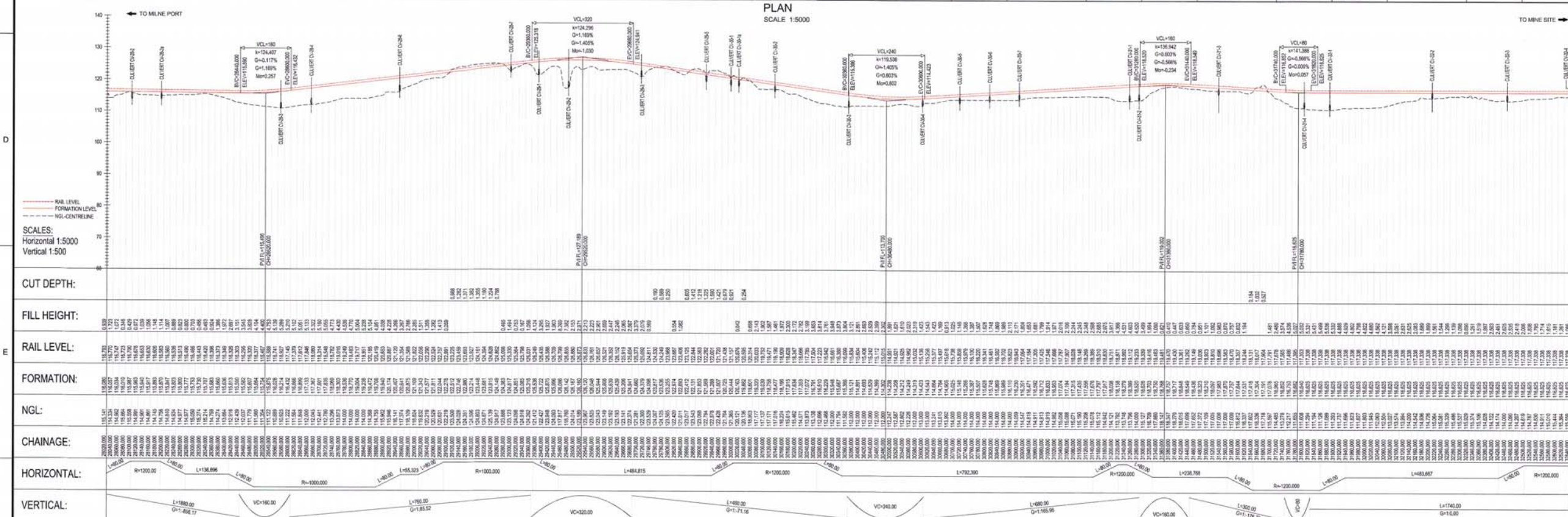
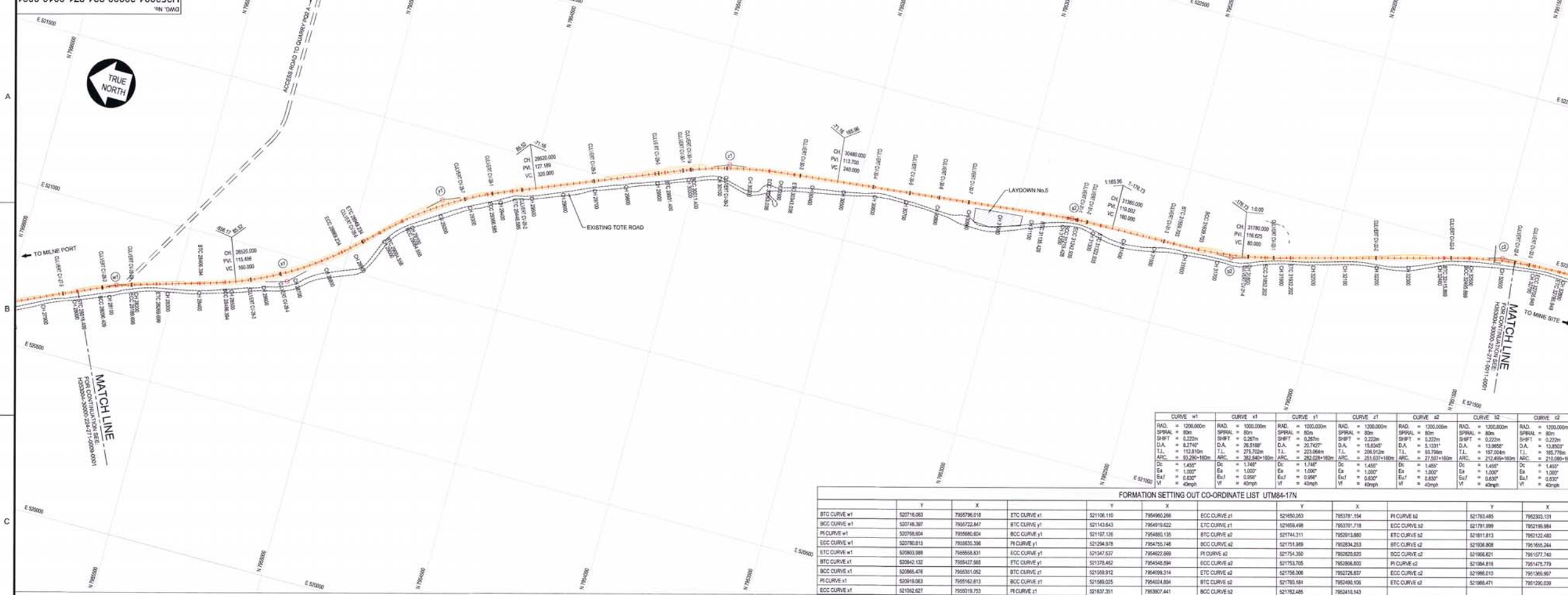
	REG. PROFESSIONAL
---	--------------------------

APPROVED FOR CONSTRUCTION	HEREBY CERTIFYING THAT THE INFORMATION CONTAINED ON THIS FORM IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I AM AWARE THAT ANY FALSIFICATION OF THIS INFORMATION IS A VIOLATION OF THE FEDERAL ACQUISITION REGULATION ACT (FAR) AND MAY BE SUBJECT TO CRIMINAL PENALTIES, CIVIL PENALTIES, AND/OR DISCIPLINARY ACTION. I AM ALSO AWARE THAT ANY FALSIFICATION OF THIS INFORMATION MAY BE SUBJECT TO DISCIPLINARY ACTION, INCLUDING SUSPENSION OR DEBARMENT FROM THE FEDERAL ACQUISITION REGULATION ACT (FAR) AND MAY BE SUBJECT TO CRIMINAL PENALTIES, CIVIL PENALTIES, AND/OR DISCIPLINARY ACTION. I AM ALSO AWARE THAT ANY FALSIFICATION OF THIS INFORMATION MAY BE SUBJECT TO DISCIPLINARY ACTION, INCLUDING SUSPENSION OR DEBARMENT FROM THE FEDERAL ACQUISITION REGULATION ACT (FAR) AND MAY BE SUBJECT TO CRIMINAL PENALTIES, CIVIL PENALTIES, AND/OR DISCIPLINARY ACTION.
0 No. APPROVED FOR CONSTRUCTION DESCRIPTION A/J/V BY 2019/03 CHKD DATE	
REVISIONS	

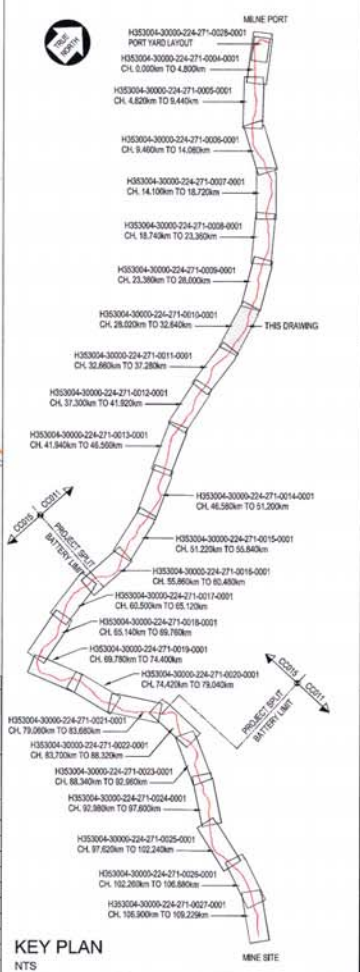
HATCH			
DRAFTSPERSON	A VAN NIEKERK	NR	2016/01/04
DESIGNER	A VAN NIEKERK	NR	2016/01/07
CHECKER	G JOHNSTONE		2016/01/07
DESIGN COORD.	G JOHNSTONE		2016/01/07
RESP. ENG.	R HALIM		2016/01/07
LEAD DESK. ENG.	F VAN BILJON		03/08/2016
AREA LEAD	F VAN BILJON		03/08/2016
ENG. MANAGER	F VAN BILJON		03/08/2016
AREA MANAGER	F PITTMAN		03/08/2016
ROLE	NAME	SIGNATURE	DATE
DRAWING APPROVAL STATUS:		Approved for Construction	

		Geological and Geochemical Data of MINTEK	
 Baffinland			
BAFFINLAND IRON MINES LP MARY RIVER PROJECT			
RAIL SITE PLAN AND LONGITUDINAL SECTION CH. 14+100 TO CH. 18+720			
SCALE 1:5,000 (NAD 83 UTM)	DWG. No. H3530-004-30000-224-271-0007-0001		RE





DRAWING No.		DRAWING TITLE	
H353004-30000-224-271-0011-0001		PLAN AND LONGITUDINAL SECTION - CH. 32+600 TO CH. 37+280	
H353004-30000-224-271-0009-0001		PLAN AND LONGITUDINAL SECTION - CH. 29+380 TO CH. 28+000	
REFERENCE DRAWINGS		DRAWING TITLE	
1		2	
3		4	
5		6	
7		8	



KEY PLAN
NTS

LEGEND:
APPROVED WATER SOURCES
MASSIVE ICE FORMATION

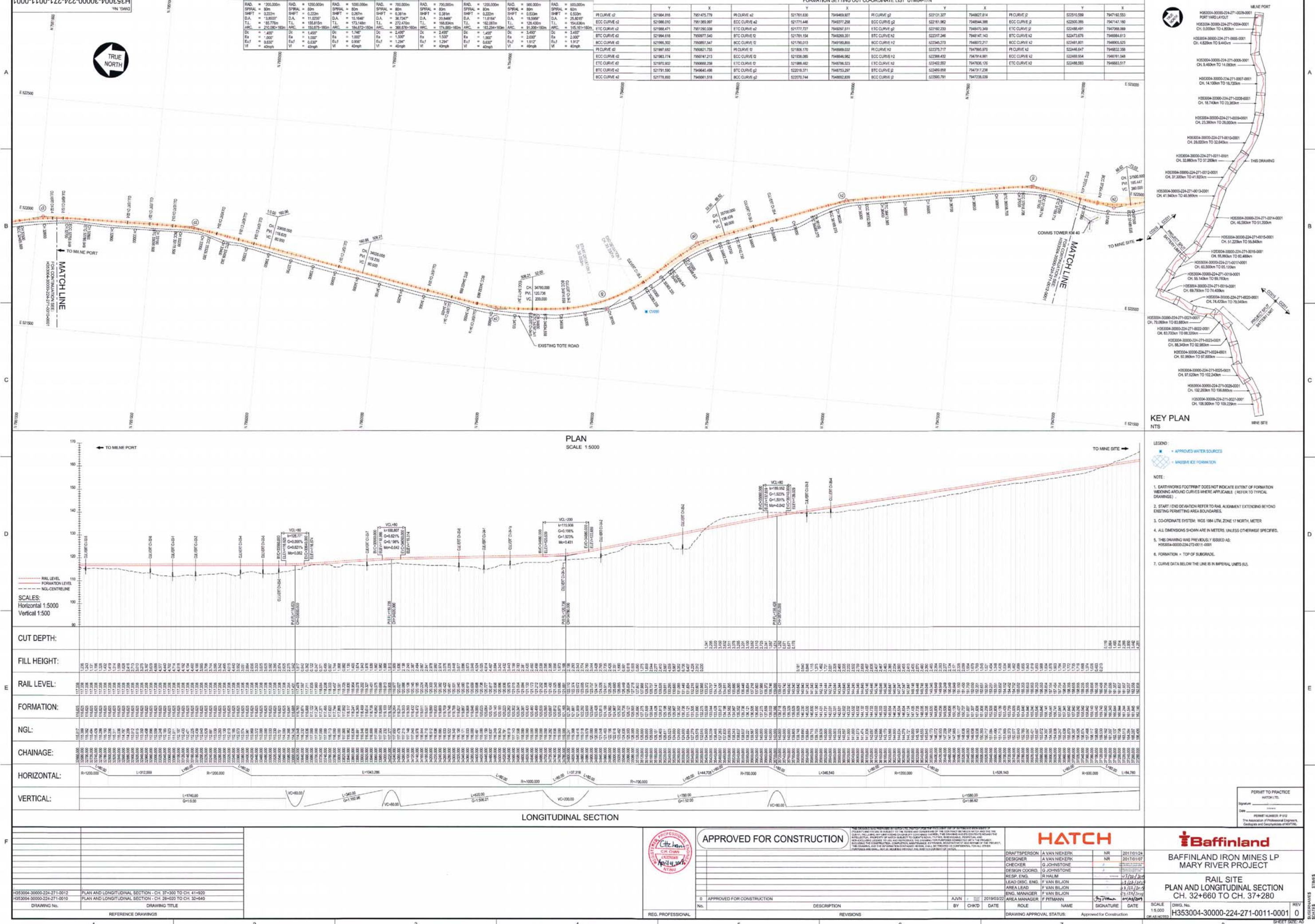
NOTE:
1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE. (REFER TO TYPICAL DRAWINGS).
2. START / END ELEVATION REFER TO RAIL ALIGNMENT EXTENDING BEYOND EXISTING PERMITTING AREA BOUNDARIES.
3. CO-ORDINATE SYSTEM: WGS 1984 UTM, ZONE 17 NORTH, METERS
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
5. THIS DRAWING WAS PREVIOUSLY ISSUED AS:
H353004-30000-224-271-0010-0001
6. FORMATION = TOP OF SUBGRADE.
7. CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (ft).

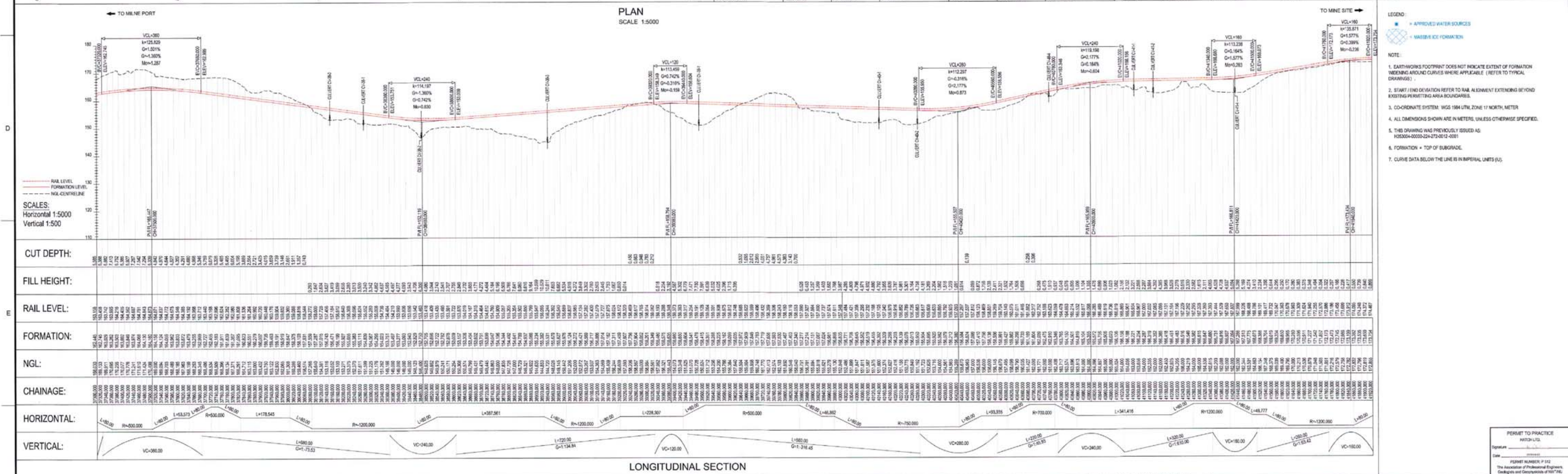
PERMIT TO PRACTICE
HATCH LTD.
Signature: _____
Date: _____
PERMIT NUMBER: P-512
The Association of Professional Engineers, Geologists and Geophysicists of BC (APEGBC)

HATCH
DRAFTSPERSON: A VAN NIEKERK
DESIGNER: A VAN NIEKERK
CHECKER: G JOHNSTONE
DESIGN COORD.: G JOHNSTONE
RESP. ENG.: R HALIM
LEAD DISC. ENG.: F VAN BILJON
AREA LEAD: F VAN BILJON
ENG. MANAGER: F VAN BILJON
AREA MANAGER: F PITTMANN
BY: CHWD
DATE: 2019/03/22
APPROVED FOR CONSTRUCTION

Baffinland
BAFFINLAND IRON MINES LP
MARY RIVER PROJECT
RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 28+020 TO CH. 32+640
SCALE: 1:5,000
DWG. No.: H353004-30000-224-271-0010-0001
REV: 0

STAGES
SHEET SIZE: A0





Approval and project information section.

APPROVED FOR CONSTRUCTION

HATCH

Baffinland

RAIL SITE PLAN AND LONGITUDINAL SECTION CH. 37+000 TO CH. 41+920

PERMIT TO PRACTICE

DESIGNER: A. VAN NIEKERK

CHECKER: G. JOHNSON

DESIGN COORD: R. HALL

RESP. ENG: R. HALL

LEAD DISC. ENG: F. VAN NIEKERK

AREA LEAD: F. VAN NIEKERK

ENG. MANAGER: F. VAN NIEKERK

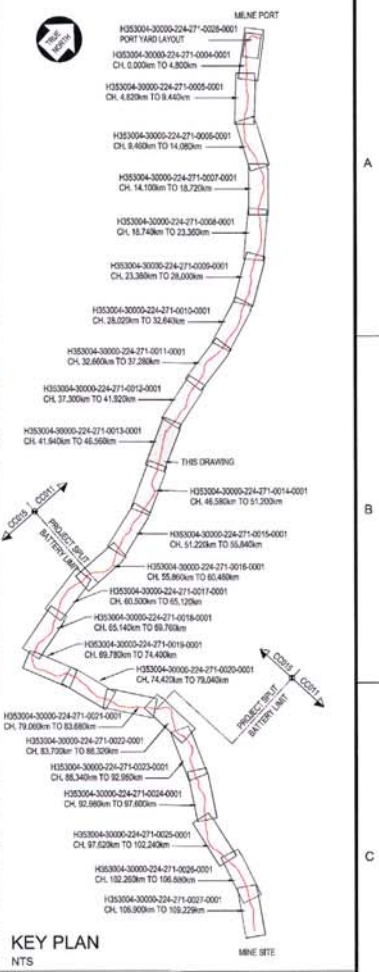
AREA MANAGER: F. PITMAN

DATE: 2017/01/24

SCALE: 1:5000

DWG. NO.: H353004-30000-224-271-0012-0001

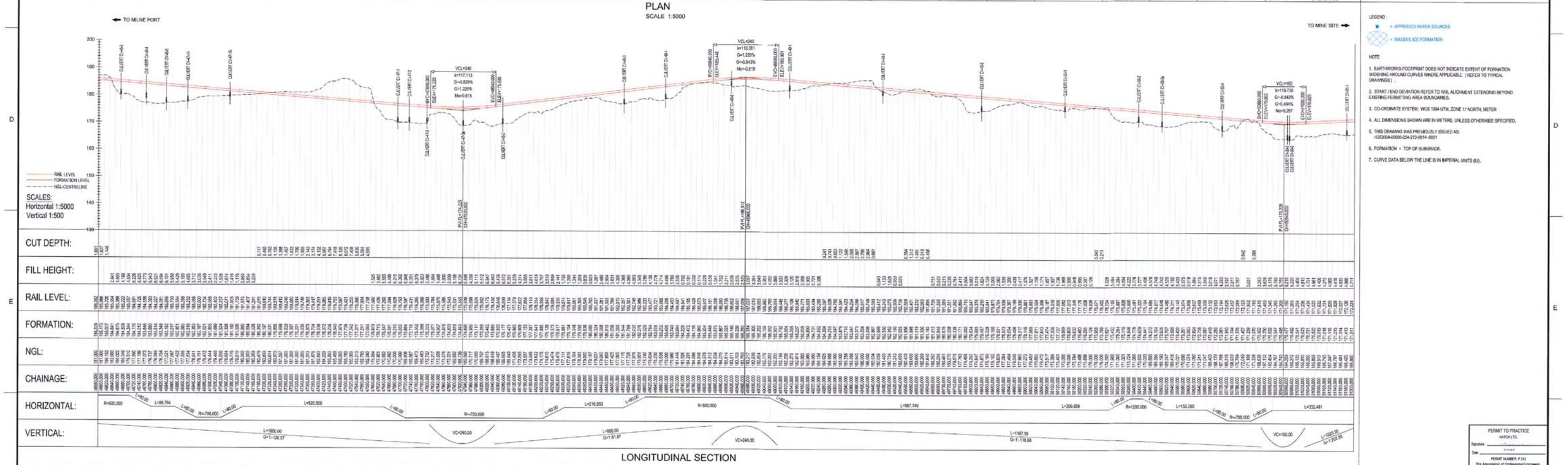
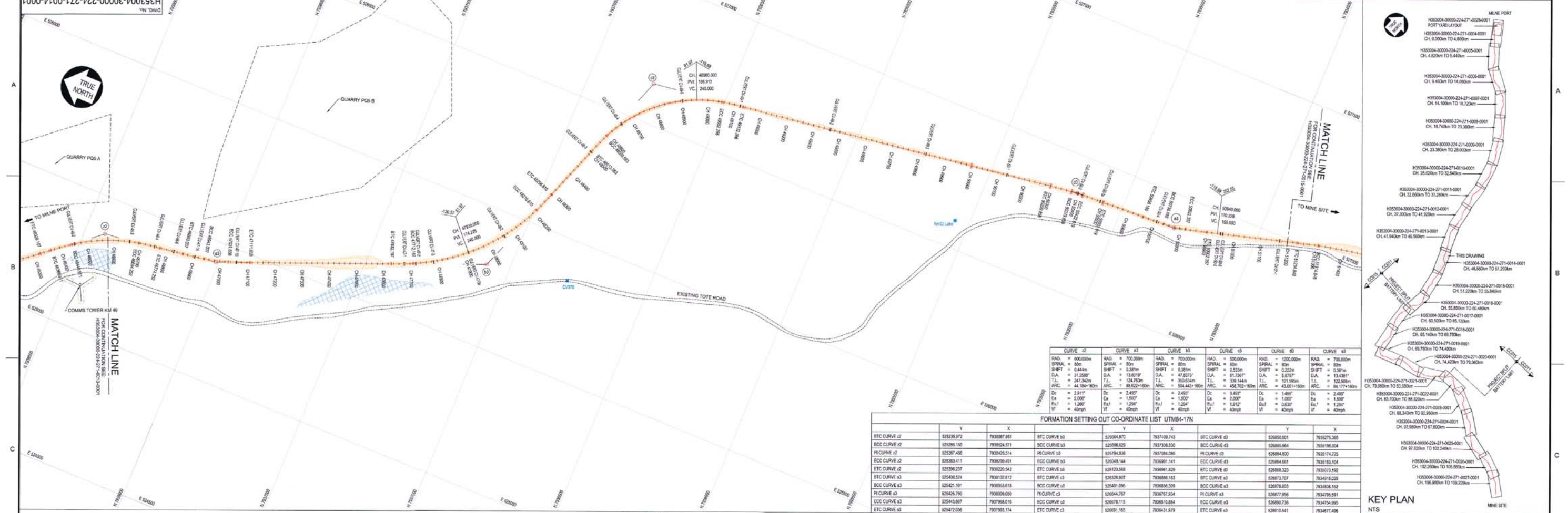
REV: 0

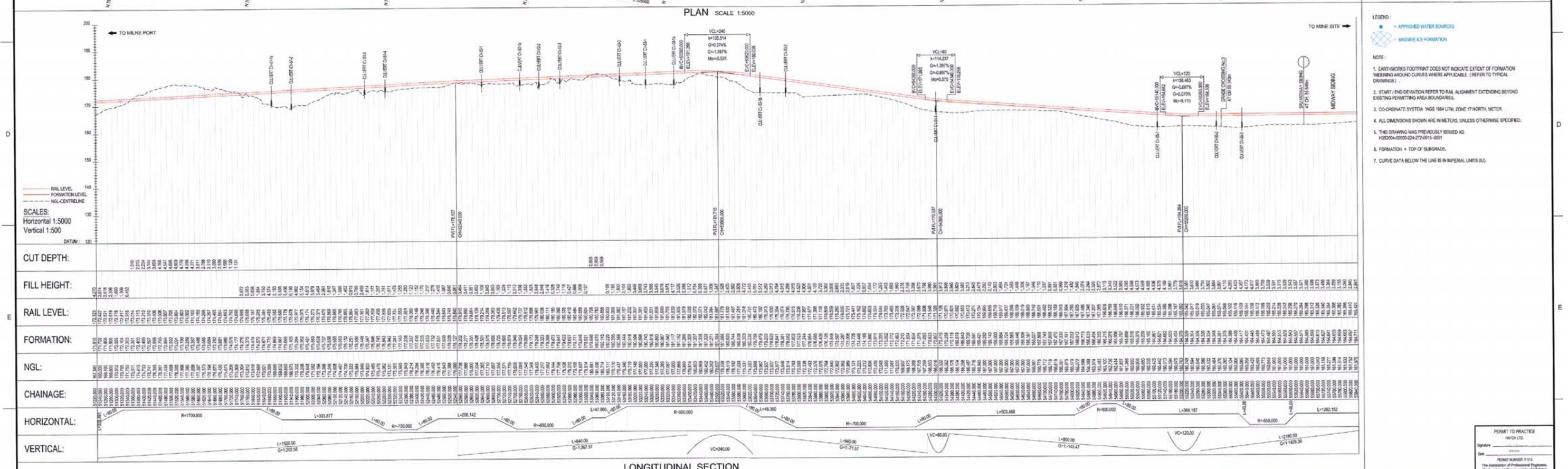
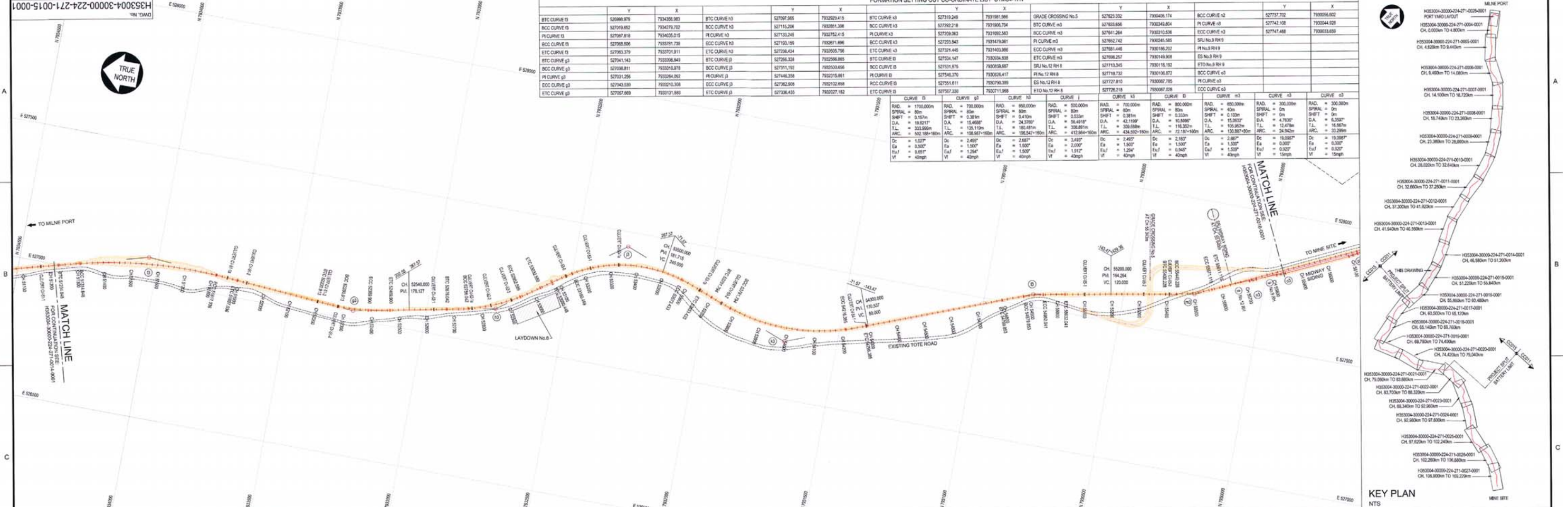


FORMATION SETTING OUT CO-ORDINATE LIST UTM84-17N									
	Y	X		Y	X		Y	X	
BTC CURVE 02	523414.616	794291.480	BCC CURVE 02	523790.100	7940997.500	PH CURVE 02	524703.937	7939580.889	
BCC CURVE 02	523409.254	7940260.860	BCC CURVE 02	523813.212	7940688.380	BCC CURVE 02	5247111.828	7939404.282	
PH CURVE 02	523434.594	7942431.571	ECC CURVE 02	523830.120	7940622.349	ETC CURVE 02	524708.510	7939453.552	
BCC CURVE 02	523404.693	7941719.080	ETC CURVE 02	523881.903	7940655.060	BTC CURVE 02	524708.510	79387196.163	
BTC CURVE 02	523431.301	7942099.261	BTC CURVE 02	524121.236	7940184.464	BCC CURVE 02	525136.933	7938718.919	
BTC CURVE 02	523438.309	7943041.395	BCC CURVE 02	524219.670	7940481.587	PH CURVE 02	525145.575	7938698.425	
BCC CURVE 02	523403.009	7941997.690	PH CURVE 02	524219.670	7940481.587	ECC CURVE 02	525155.999	7938692.821	
PH CURVE 02	523404.011	7941997.690	PH CURVE 02	524219.670	7940481.587	BTC CURVE 02	525170.175	7938619.285	
BTC CURVE 02	523400.040	7941817.814	ETC CURVE 02	524295.389	7940203.155	BTC CURVE 02	525235.972	7938567.651	
ETC CURVE 02	523404.388	7941486.613	BTC CURVE 02	524802.807	7939664.918	BCC CURVE 02	525285.100	7938524.971	
BTC CURVE 02	523755.044	7941087.852	BCC CURVE 02	524801.854	7939666.263				

KEY PLAN
NTS







APPROVED FOR CONSTRUCTION

HATCH

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 51+220 TO CH. 55+840

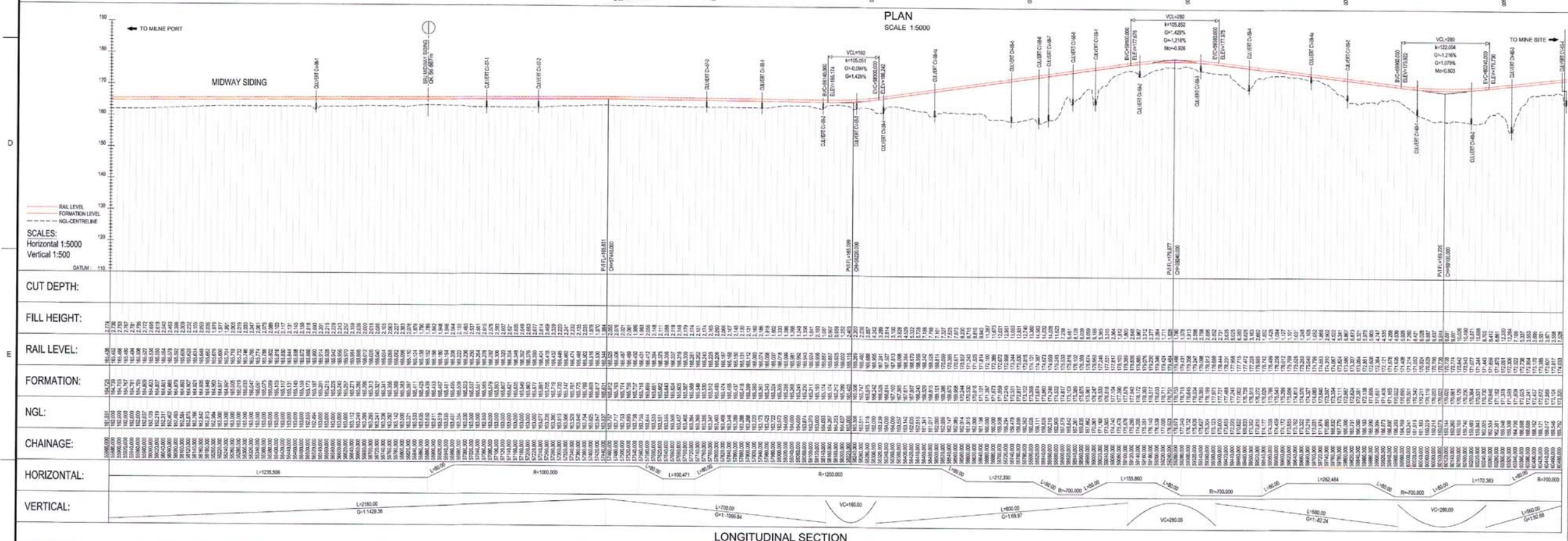
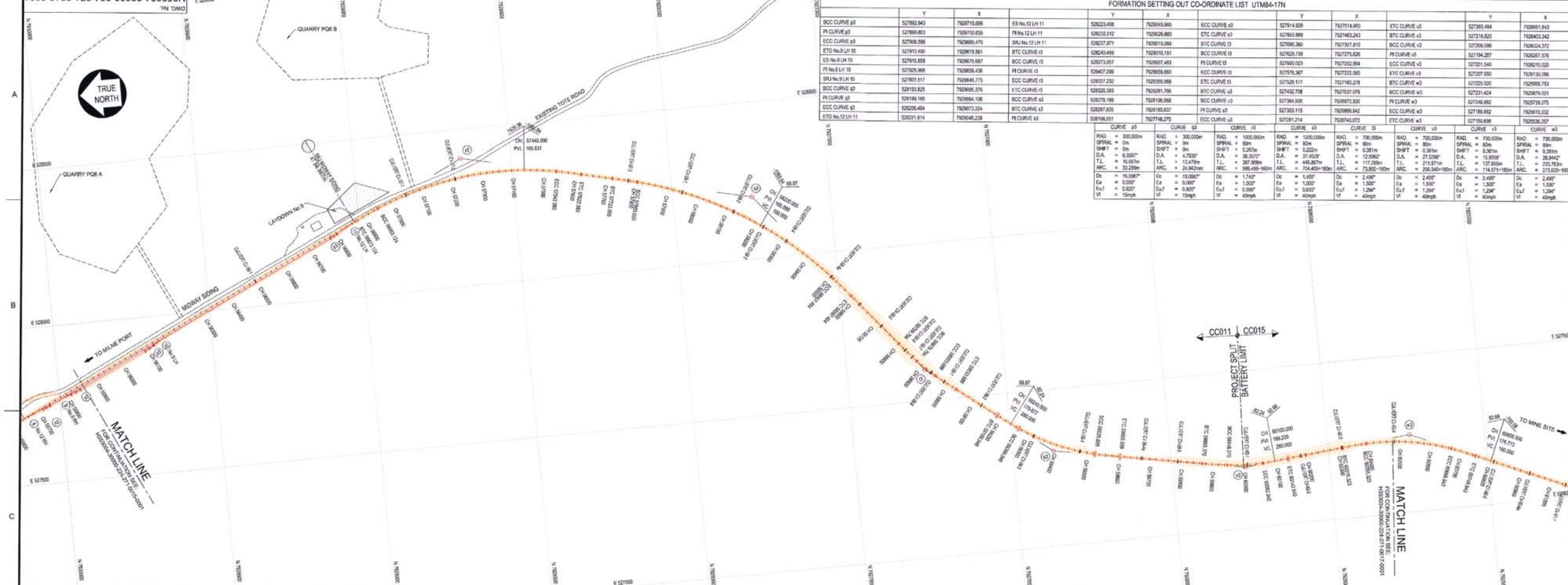
DRAWING No. H353004-30000-224-271-0015-0001

DATE: 2017-01-24

SCALE: 1:5000

REV: 0

SHEET SIZE: A0



DRAWING NO.	REFERENCE DRAWING	DRAWING TITLE
H353004-30000-224-271-001-0001	LAYOUT SKETCH - RAIL LAYOUT	RAIL LAYOUT
H353004-30000-224-271-001-0002	LAYOUT SKETCH - QUARRY PQR A	QUARRY PQR A
H353004-30000-224-271-001-0003	LINE PLAN AND LONGITUDINAL SECTION - CH. 60+500 TO CH. 65+120	LINE PLAN AND LONGITUDINAL SECTION - CH. 60+500 TO CH. 65+120
H353004-30000-224-271-001-0004	LINE PLAN AND LONGITUDINAL SECTION - CH. 51+220 TO CH. 55+840	LINE PLAN AND LONGITUDINAL SECTION - CH. 51+220 TO CH. 55+840

DESIGNER	CHECKER	DATE	BY	CHKD	DATE	ROLE	NAME	SIGNATURE	DATE
A. VAN MEER	G. JOHNSTONE	2017-01-04	AVM	GPJ	2017-01-04	DESIGNER	A. VAN MEER	[Signature]	2017-01-04
G. JOHNSTONE	G. JOHNSTONE	2017-01-04	GPJ	GPJ	2017-01-04	CHECKER	G. JOHNSTONE	[Signature]	2017-01-04
G. JOHNSTONE	G. JOHNSTONE	2017-01-04	GPJ	GPJ	2017-01-04	DESIGN COORD.	G. JOHNSTONE	[Signature]	2017-01-04
G. JOHNSTONE	G. JOHNSTONE	2017-01-04	GPJ	GPJ	2017-01-04	RESP. ENG.	G. JOHNSTONE	[Signature]	2017-01-04
G. JOHNSTONE	G. JOHNSTONE	2017-01-04	GPJ	GPJ	2017-01-04	AREA LEAD	G. JOHNSTONE	[Signature]	2017-01-04
G. JOHNSTONE	G. JOHNSTONE	2017-01-04	GPJ	GPJ	2017-01-04	ENG. MANAGER	G. JOHNSTONE	[Signature]	2017-01-04
G. JOHNSTONE	G. JOHNSTONE	2017-01-04	GPJ	GPJ	2017-01-04	AREA MANAGER	G. JOHNSTONE	[Signature]	2017-01-04

SCALE	DWG. NO.	REV
1:5000	H353004-30000-224-271-001-0001	0

KEY PLAN

LEGEND:

- APPROVED WATER SOURCE
- MAJOR ICE FORMATION

NOTE:

- EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE. (REFER TO TYPICAL DRAWINGS).
- START / END DEVIATION REFER TO RAIL ALIGNMENT EXTENDING BEYOND EXISTING PERMITTING AREA BOUNDARIES.
- COORDINATE SYSTEM: WGS 1984 UTM, ZONE 17 NORTH, METER.
- ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
- THIS DRAWING WAS PREVIOUSLY ISSUED AS: H353004-30000-224-271-001-0001
- FORMATION = TOP OF SUBGRADE.
- CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (U.S.).

PERMIT TO PRACTICE

Signature: [Signature]

Date: [Date]

PERMIT NUMBER: P-512

The Association of Professional Engineers, Geologists and Geophysicists of B.C.

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

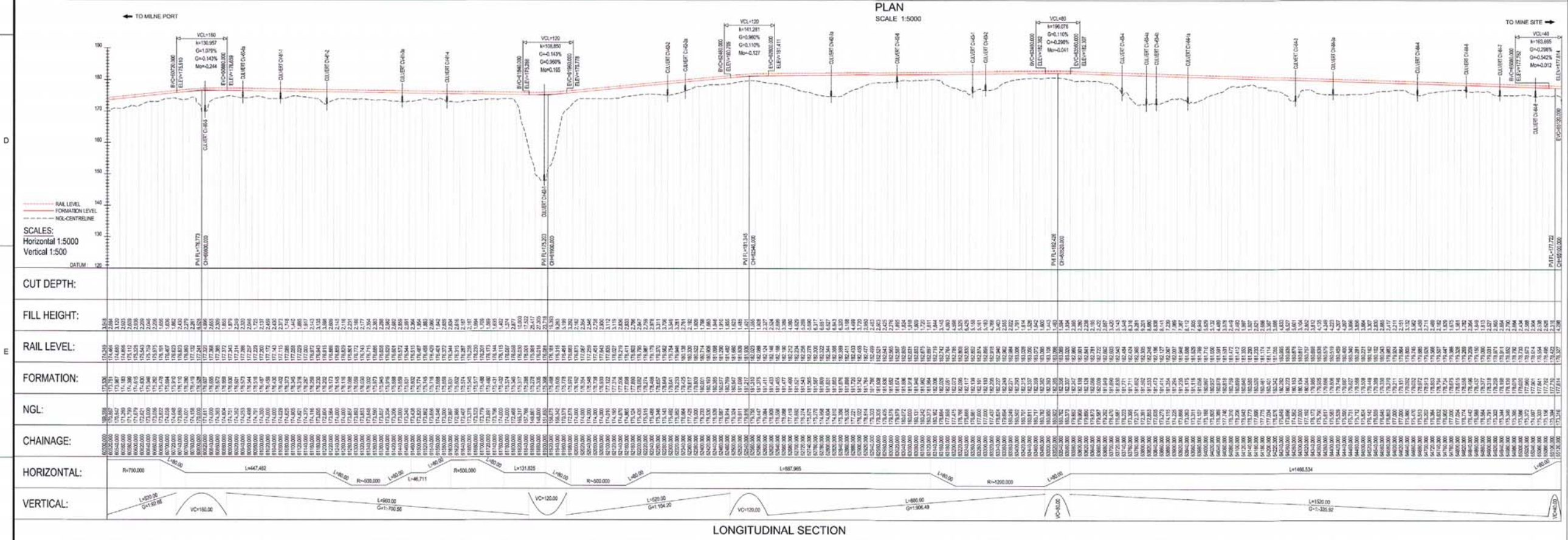
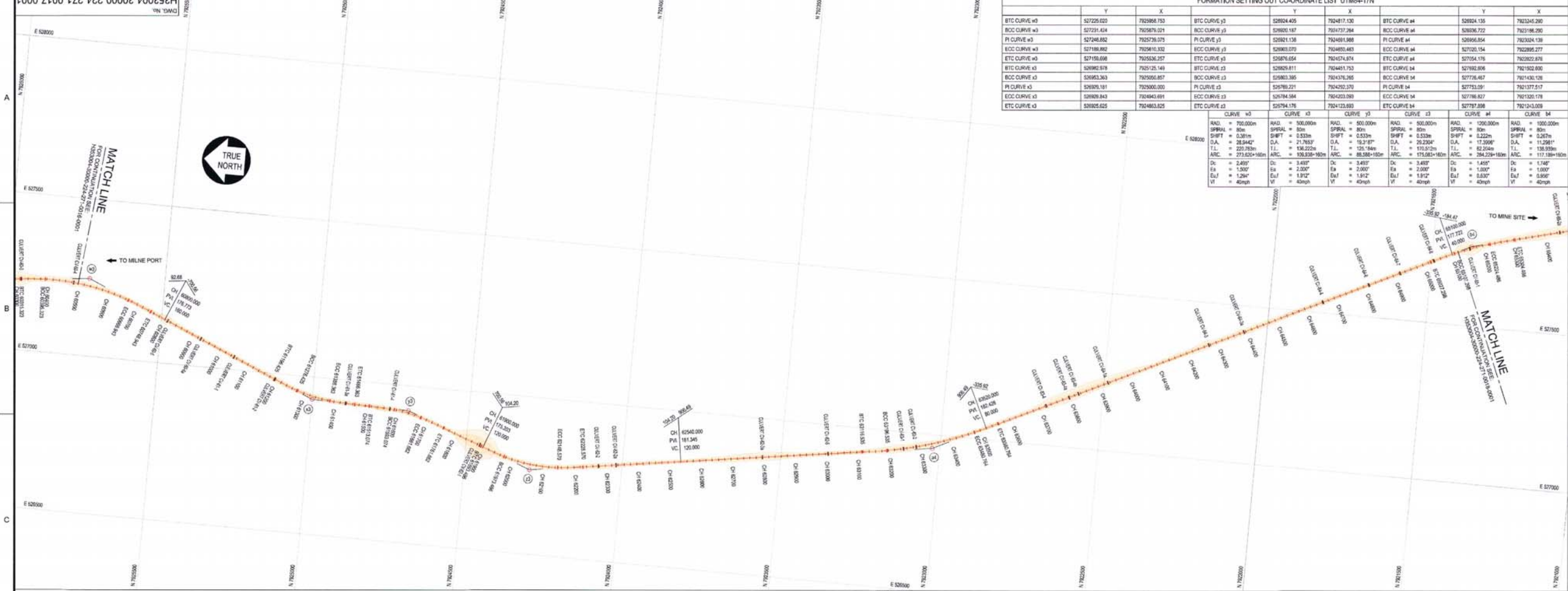
RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 55+860 TO CH. 60+480

SCALE: 1:5000

DWG. NO.: H353004-30000-224-271-001-0001

REV: 0

SHEET SIZE: A0



NO.	REVISIONS	DATE	BY	CHKD	DATE	DESCRIPTION
0	APPROVED FOR CONSTRUCTION	2019/03/28	AJVN			
1						
2						
3						
4						
5						
6						
7						
8						

KEY PLAN
NTS

LEGEND:

- APPROVED WATER BODIES
- NATURAL ICE FORMATION

NOTE:

- EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WEARING AROUND CURVES WHERE APPLICABLE. (REFER TO TYPICAL DRAWINGS)
- STARTING ELEVATION REFERS TO RAIL ALIGNMENT EXTENDING BEYOND EXISTING PERMITTING AREA BOUNDARIES
- COORDINATE SYSTEM: WGS 1984 UTM, ZONE 17 NORTH, METERS
- ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
- THIS DRAWING WAS PREVIOUSLY ISSUED AS: H353004-30000-224-271-0017-0001
- FORMATION = TOP OF SUBGRADE
- CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (U.S.)

PERMIT TO PRACTICE
HATCH LTD.
Date: _____
REGISTERED NUMBER: P-112
The Association of Professional Engineers, Geologists and Geoscientists of (NWT/NU)

HATCH

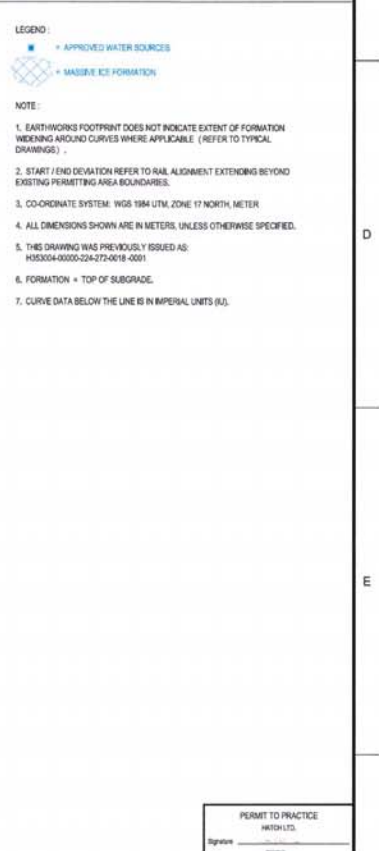
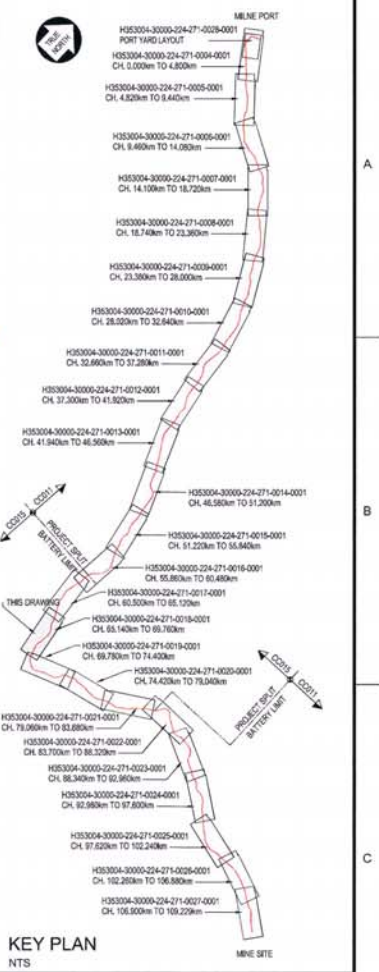
Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

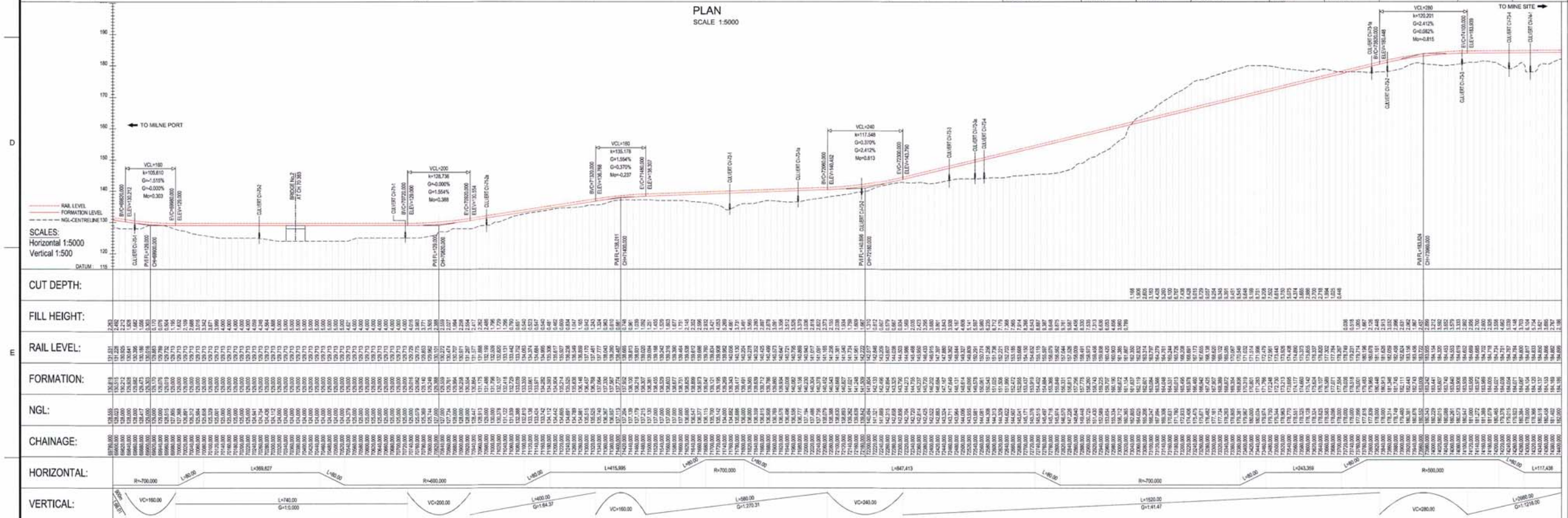
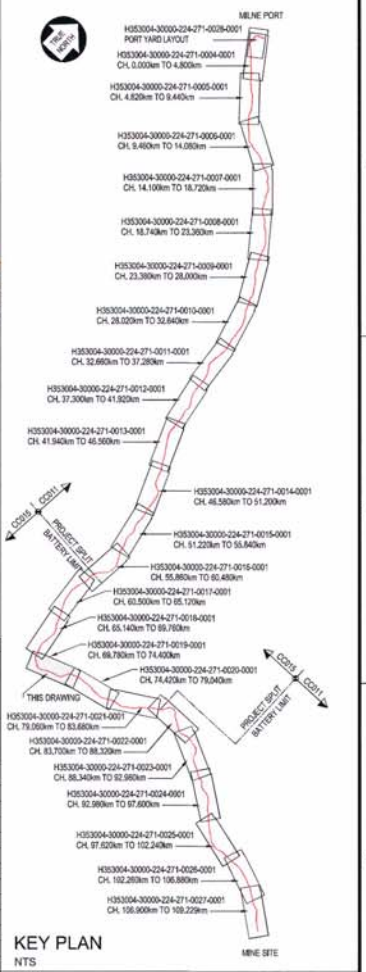
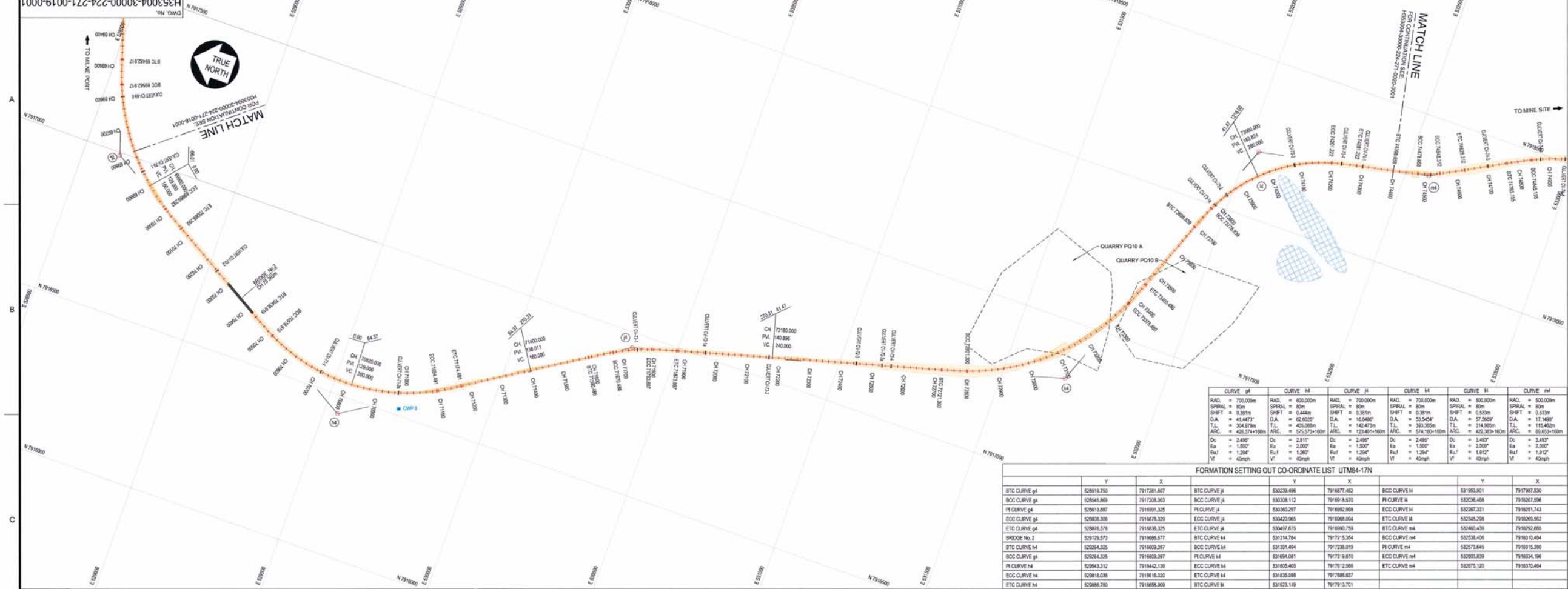
RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 60+500 TO CH. 65+120

SCALE: 1:5000
DWG. NO.: H353004-30000-224-271-0017-0001
REV: 0

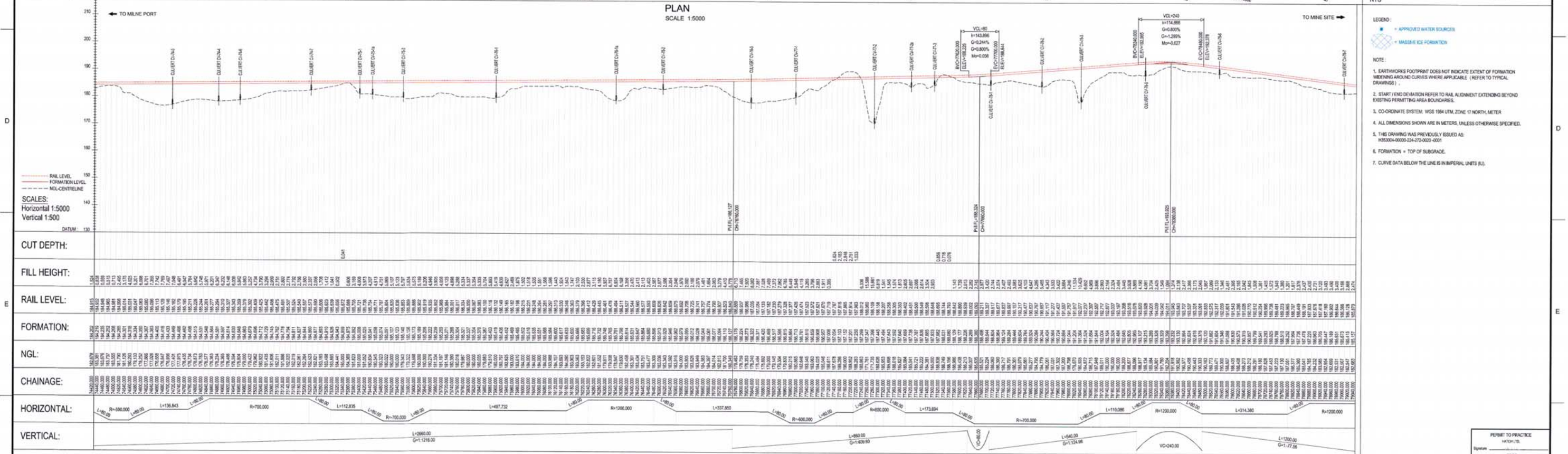
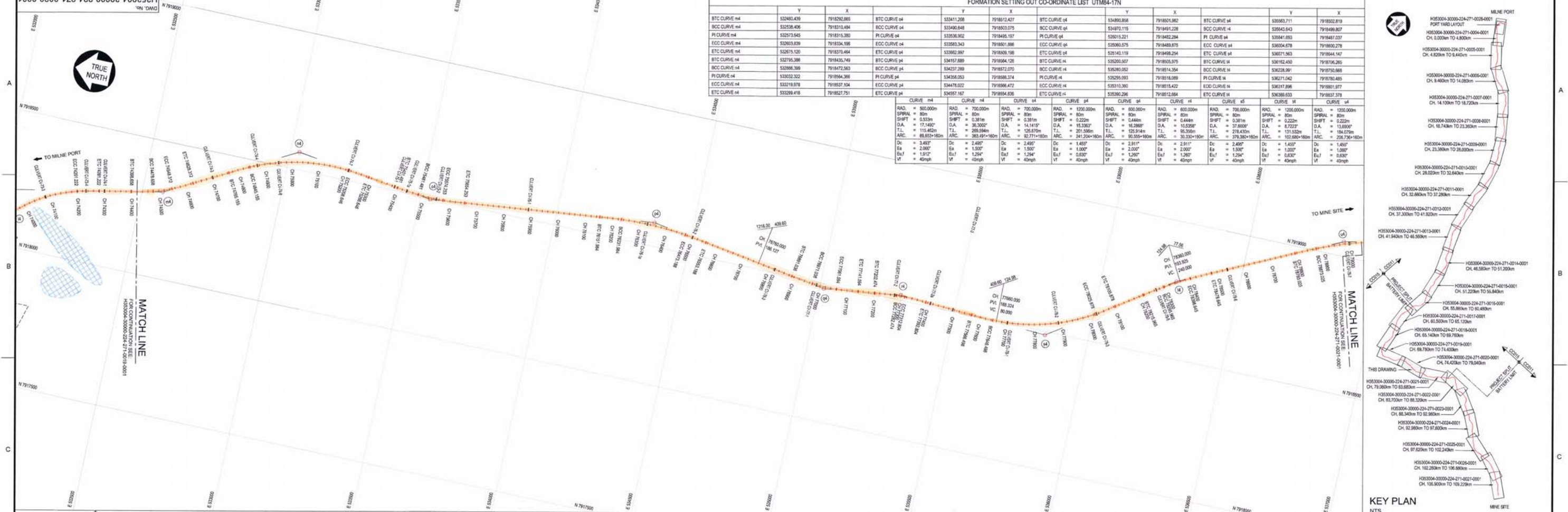
SHEET SIZE: A0

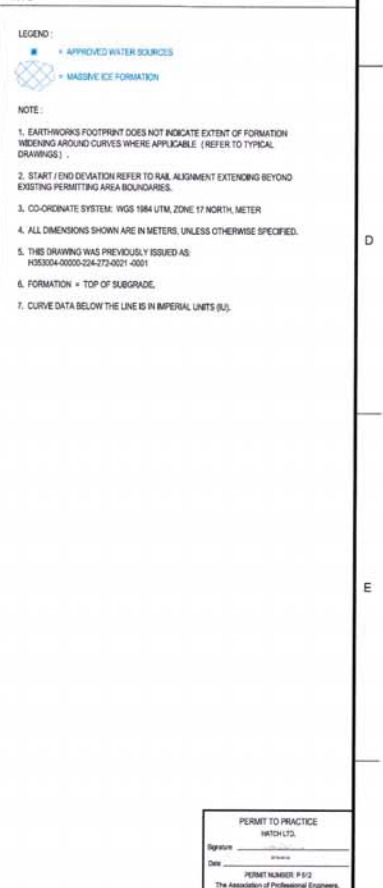


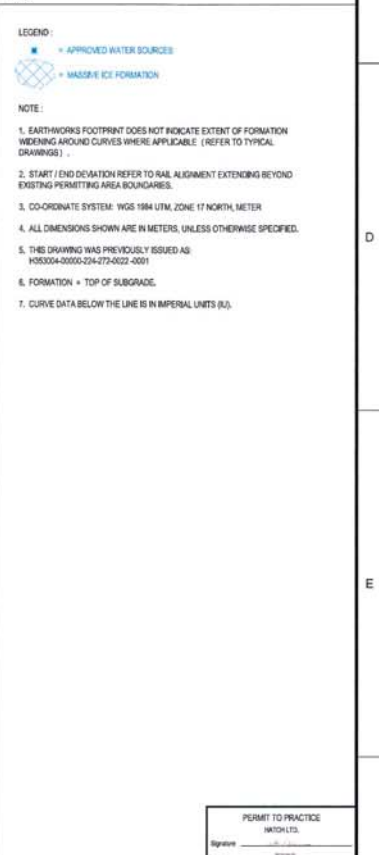
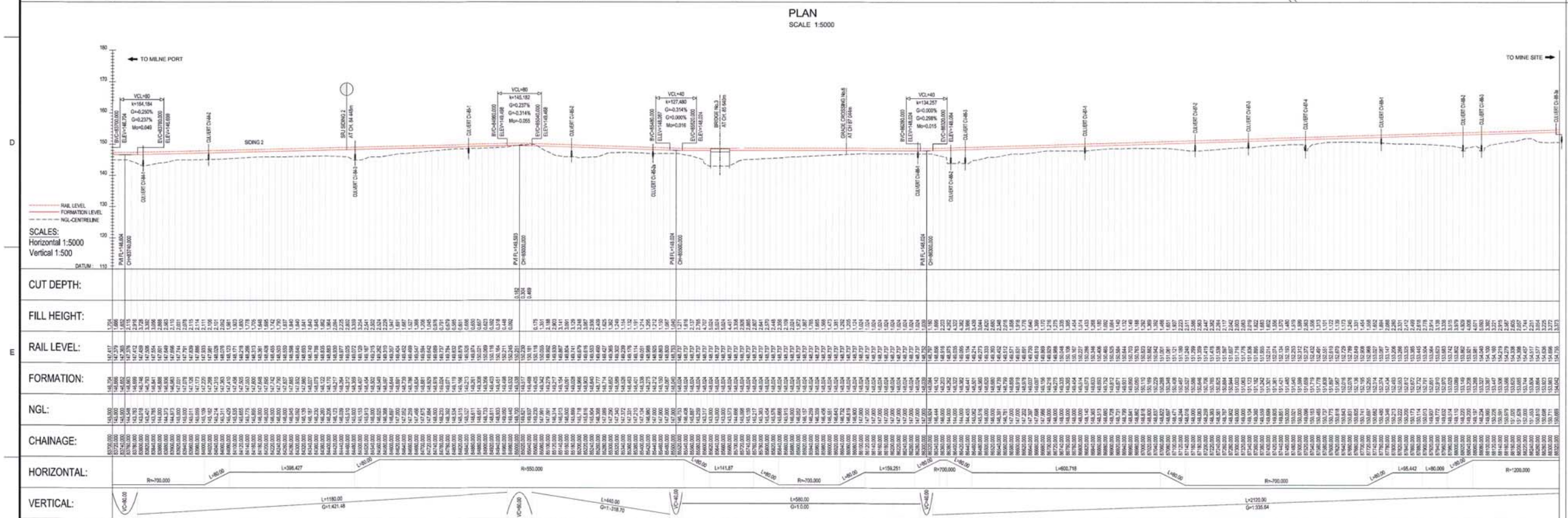
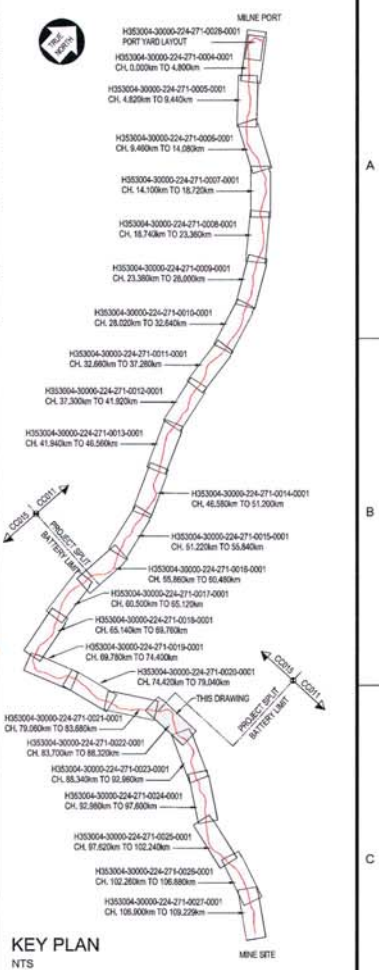
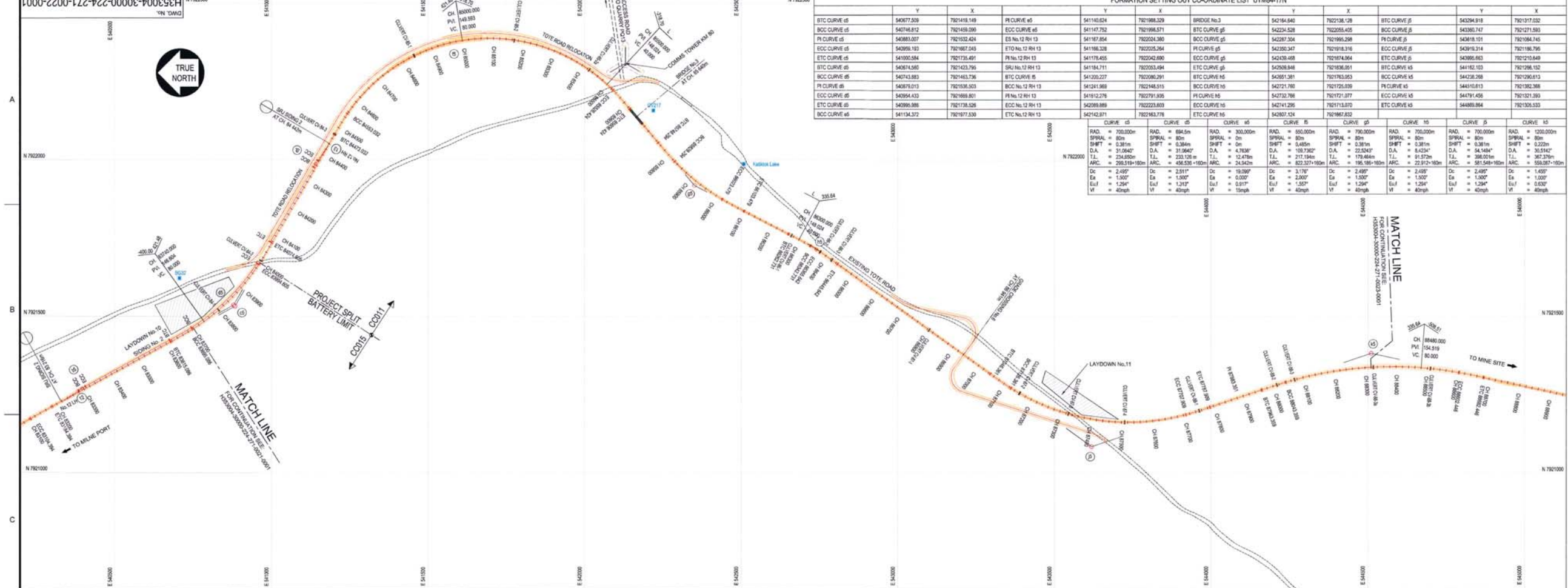
6374
6375
6376
6377
6378
6379
6380
6381
6382
6383
6384
6385
6386
6387
6388
6389
6390
6391
6392
6393
6394
6395
6396
6397
6398
6399
6400
6401
6402
6403
6404
6405
6406
6407
6408
6409
6410
6411
6412
6413
6414
6415
6416
6417
6418
6419
6420
6421
6422
6423
6424
6425
6426
6427
6428
6429
6430
6431
6432
6433
6434
6435
6436
6437
6438
6439
6440
6441
6442
6443
6444
6445
6446
6447
6448
6449
6450
6451
6452
6453
6454
6455
6456
6457
6458
6459
6460
6461
6462
6463
6464
6465
6466
6467
6468
6469
6470
6471
6472
6473
6474
6475
6476
6477
6478
6479
6480
6481
6482
6483
6484
6485
6486
6487
6488
6489
6490
6491
6492
6493
6494
6495
6496
6497
6498
6499
6500
6501
6502
6503
6504
6505
6506
6507
6508
6509
6510
6511
6512
6513
6514
6515
6516
6517
6518
6519
6520
6521
6522
6523
6524
6525
6526
6527
6528
6529
6530
6531
6532
6533
6534
6535
6536
6537
6538
6539
6540
6541
6542
6543
6544
6545
6546
6547
6548
6549
6550
6551
6552
6553
6554
6555
6556
6557
6558
6559
6560
6561
6562
6563
6564
6565
6566
6567
6568
6569
6570
6571
6572
6573
6574
6575
6576
6577
6578
6579
6580
6581
6582
6583
6584
6585
6586
6587
6588
6589
6590
6591
6592
6593
6594
6595
6596
6597
6598
6599
6600
6601
6602
6603
6604
6605
6606
6607
6608
6609
6610
6611
6612
6613
6614
6615
6616
6617
6618
6619
6620
6621
6622
6623
6624
6625
6626
6627
6628
6629
6630
6631
6632
6633
6634
6635
6636
6637
6638
6639
6640
6641
6642
6643
6644
6645
6646
6647
6648
6649
6650
6651
6652
6653
6654
6655
6656
6657
6658
6659
6660
6661
6662
6663
6664
6665
6666
6667
6668
6669
6670
6671
6672
6673
6674
6675
6676
6677
6678
6679
6680
6681
6682
6683
6684
6685
6686
6687
6688
6689
6690
6691
6692
6693
6694
6695
6696
6697
6698
6699
6700
6701
6702
6703
6704
6705
6706
6707
6708
6709
6710
6711
6712
6713
6714
6715
6716
6717
6718
6719
6720
6721
6722
6723
6724
6725
6726
6727
6728
6729
6730
6731
6732
6733
6734
6735
6736
6737
6738
6739
6740
6741
6742
6743
6744
6745
6746
6747
6748
6749
6750
6751
6752
6753
6754
6755
6756
6757
6758
6759
6760
6761
6762
6763
6764
6765
6766
6767
6768
6769
6770
6771
6772
6773
6774
6775
6776
6777
6778
6779
6780
6781
6782
6783
6784
6785
6786
6787
6788
6789
6790
6791
6792
6793
6794
6795
6796
6797
6798
6799
6800
6801
6802
6803
6804
6805
6806
6807
6808
6809
6810
6811
6812
6813
6814
6815
6816
6817
6818
6819
6820
6821
6822
6823
6824
6825
6826
6827
6828
6829
6830
6831
6832
6833
6834
6835
6836
6837
6838
6839
6840
6841
6842
6843
6844
6845
6846
6847
6848
6849
6850
6851
6852
6853
6854
6855
6856
6857
6858
6859
6860
6861
6862
6863
6864
6865
6866
6867
6868
6869
6870
6871
6872
6873
6874
6875
6876
6877
6878
6879
6880
6881
6882
6883
6884
6885
6886
6887
6888
6889
6890
6891
6892
6893
6894
6895
6896
6897
6898
6899
6900
6901
6902
6903
6904
6905
6906
6907
6908
6909
6910
6911
6912
6913
6914
6915
6916
6917
6918
6919
6920
6921
6922
6923
6924
6925
6926
6927
6928
6929
6930
6931
6932
6933
6934
6935
6936
6937
6938
6939
6940
6941
6942
6943
6944
6945
6946
6947
6948
6949
6950
6951
6952
6953
6954
6955
6956
6957
6958
6959
6960
6961
6962
6963
6964
6965
6966
6967
6968
6969
6970
6971
6972
6973
6974
6975
6976
6977
6978
6979
6980
6981
6982
6983
6984
6985
6986
6987
6988
6989
6990
6991
6992
6993
6994
6995
6996
6997
6998
6999
7000
7001
7002
7003
7004
7005
7006
7007
7008
7009
7010
7011
7012
7013
7014
7015
7016
7017
7018
7019
7020
7021
7022
7023
7024
7025
7026
7027
7028
7029
7030
7031
7032
7033
7034
7035
7036
7037
7038
7039
7040
7041
7042
7043
7044
7045
7046
7047
7048
7049
7050
7051
7052
7053
7054
7055
70

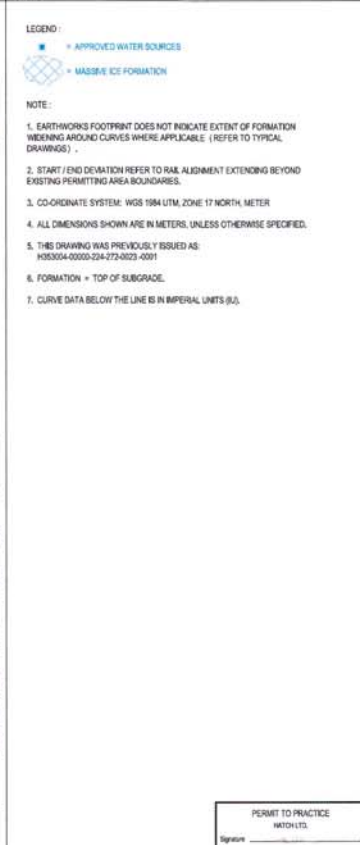
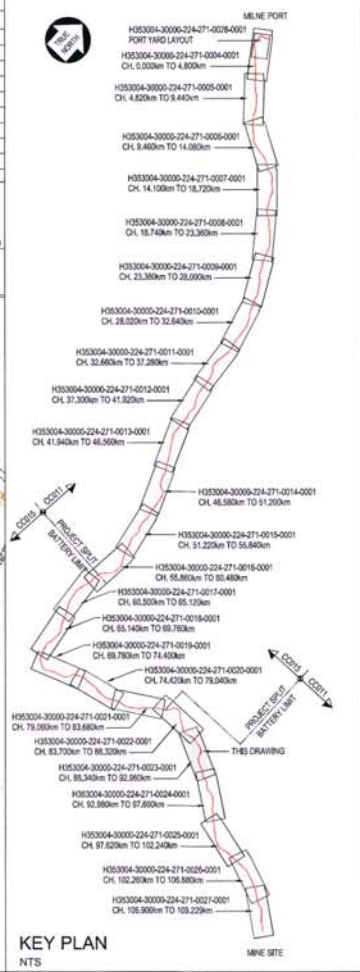
[illegible]

		Date: _____ PROJECT NUMBER: P-12 The Association of Professional Engineers, Geologists and Geophysicists of (1987)193
BAFFINLAND IRON MINES LP MARY RIVER PROJECT		
RAIL SITE PLAN AND LONGITUDINAL SECTION CH. 69+780 TO CH. 74+400		
SCALE: 1:5,000 (SEE ALSO NOTICES)	DWG. No. H353004-30000-224-271-0019-0001	REV 0

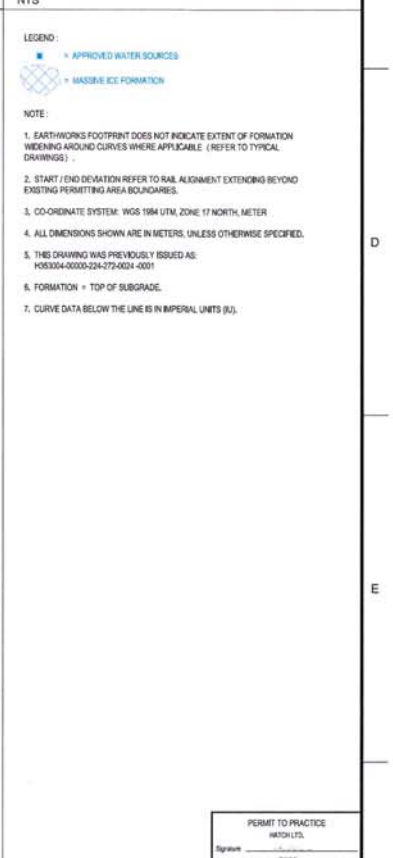
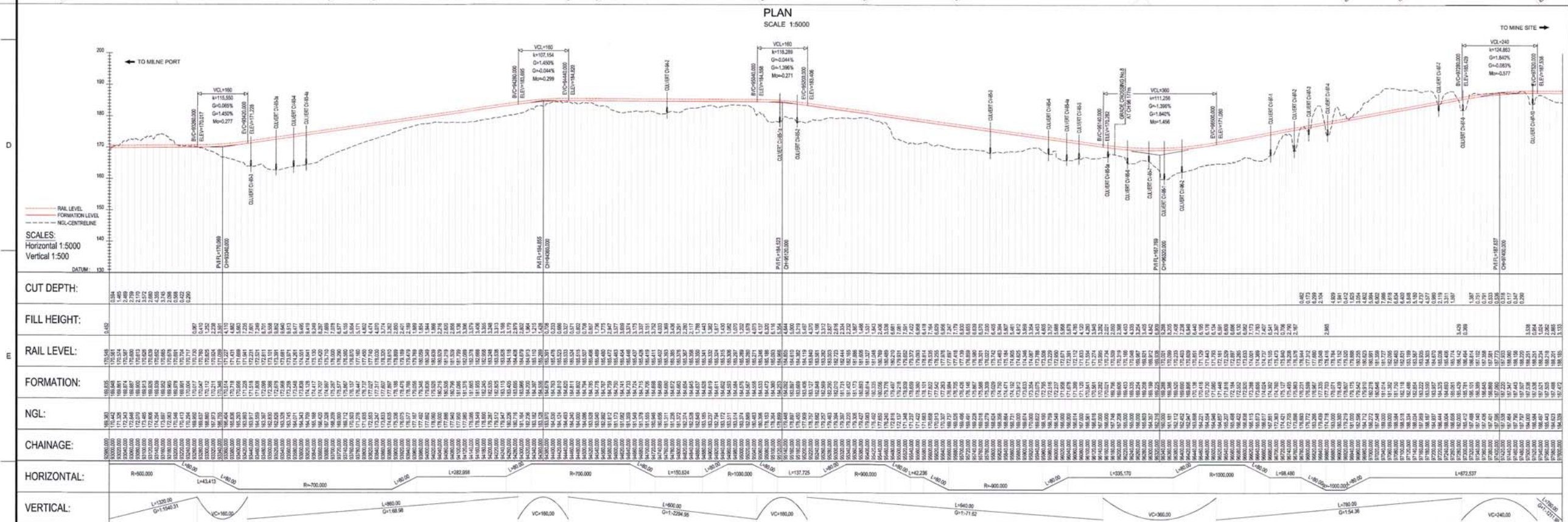
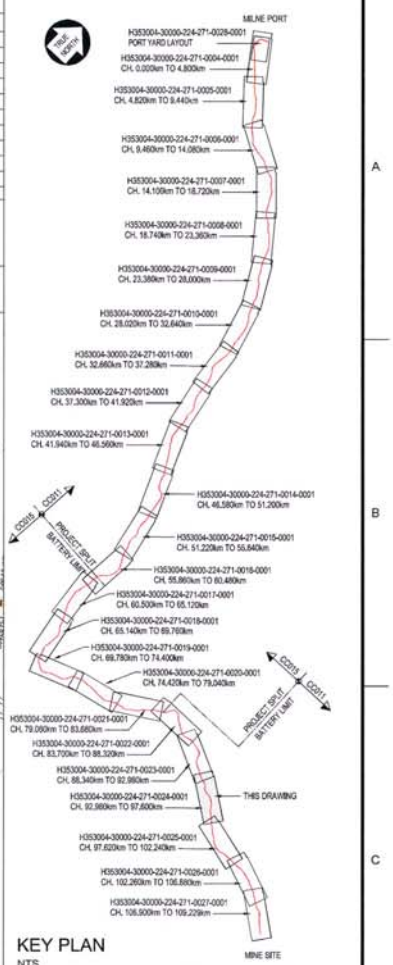
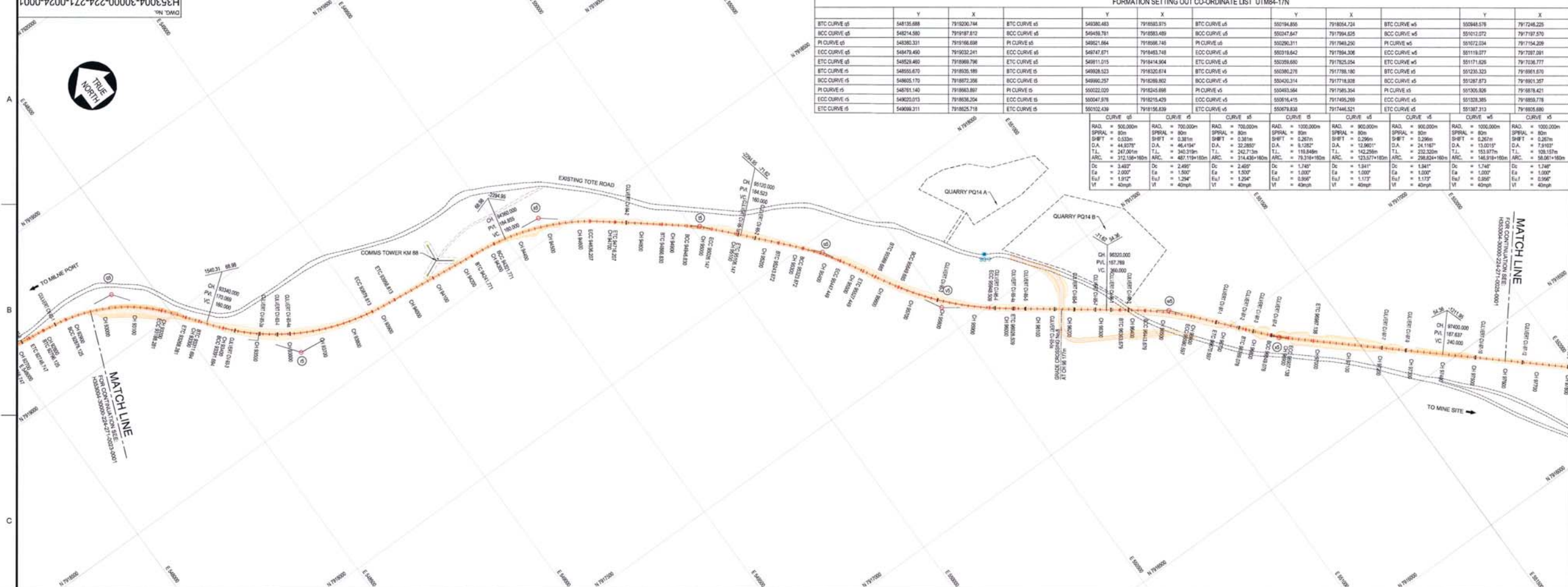
[illegible]



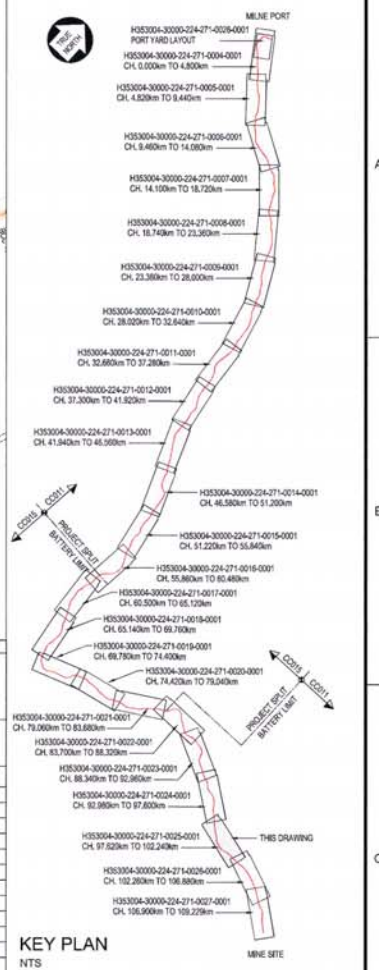
[illegible]



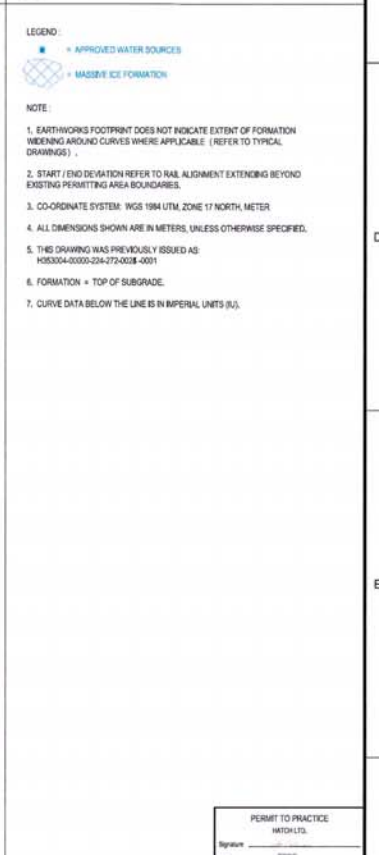
LONGITUDINAL SECTION				APPROVED FOR CONSTRUCTION		HATCH		Baffinland	
0 APPROVED FOR CONSTRUCTION		AVJN		2019/03/25		F PITTMAN		SCALE 1:5,000	
REG. PROFESSIONAL		DESCRIPTION		BY CHKD DATE		ROLE NAME SIGNATURE DATE		DWG. No. H353004-30000-224-271-0023-0001	
REVISED		REVISIONS		DRAWING APPROVAL STATUS: Approved for Construction		REV. 0		REV. 0	

[illegible]

		Date: <u>PERMIT NUMBER: P-12</u> The Association of Professional Engineers, Geologists and Geoscientists of NWT/NU	
BAFFINLAND IRON MINES LP MARY RIVER PROJECT RAIL SITE PLAN AND LONGITUDINAL SECTION CH. 92+980 TO CH. 97+600			
SCALE 1:5,000 OR AS NOTED	DWG. No: H353004-30000-224-271-0024-0001	REV 0	REVISIONS DATES
R		SHEET SIZE: A0	

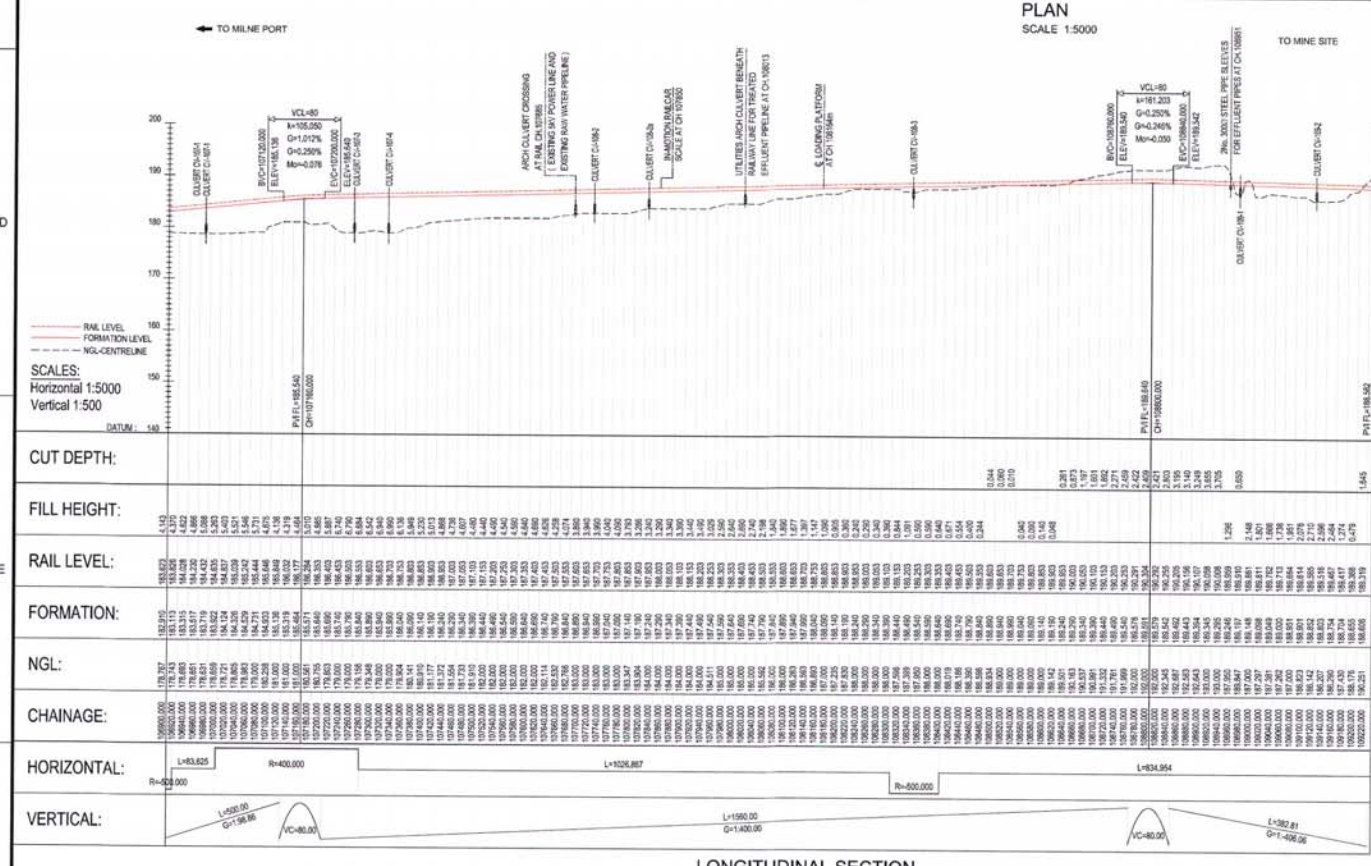
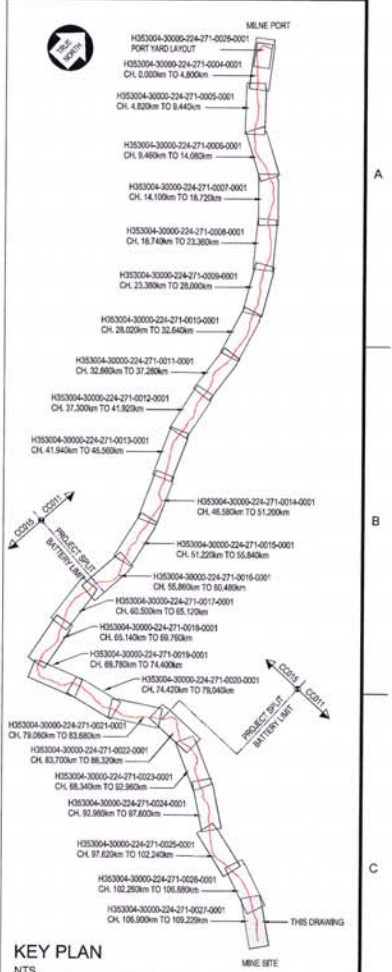
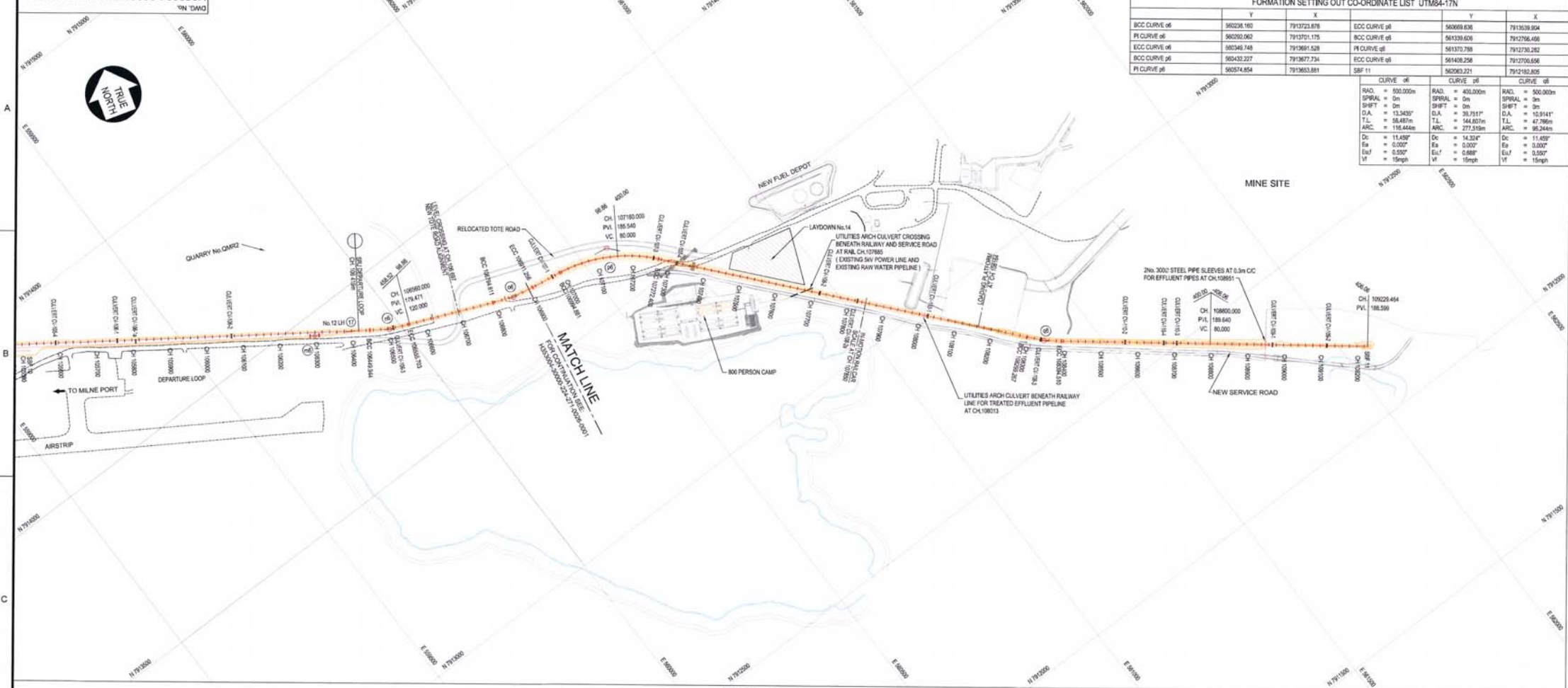


KEY PLAN
NTS



FORMATION SETTING OUT CO-ORDINATE LIST UTM84-17N					
	Y	X		Y	X
BCC CURVE #6	960204.160	7913723.876	ECC CURVE #6	960893.636	7913639.804
PC CURVE #6	960204.160	7913723.876	BCC CURVE #6	961339.606	7912766.488
ECC CURVE #6	960240.748	7913651.528	PC CURVE #6	961370.788	7912766.488
BCC CURVE #6	960432.227	7913677.734	ECC CURVE #6	961482.258	7912766.488
PC CURVE #6	960574.854	7913683.881	SP 11	962062.221	7912766.488

CURVE #6	CURVE #6	CURVE #6
RAD. = 500.000m	RAD. = 400.000m	RAD. = 500.000m
SPRAL = 0m	SPRAL = 0m	SPRAL = 0m
SHIFT = 0m	SHIFT = 0m	SHIFT = 0m
D.A. = 13.3457°	D.A. = 30.7317°	D.A. = 10.9141°
T.L. = 58.487m	T.L. = 144.603m	T.L. = 47.786m
ARC = 115.444m	ARC = 271.155m	ARC = 85.344m
Dc = 11.439°	Dc = 14.324°	Dc = 11.439°
Ea = 0.000°	Ea = 0.000°	Ea = 0.000°
SLT = 0.000°	SLT = 0.000°	SLT = 0.000°
VI = 15mph	VI = 15mph	VI = 15mph



DRAWING NO.	DRAWING TITLE
H353004-10000-228-271-0004-0001	STORMWATER CULVERT M-CULV-3/4 LAYOUT AND DETAILS
H353004-10000-228-271-0005-0001	TOTE ROAD A RAILROAD CROSSING LAYOUT AND DETAILS
H353004-10000-228-271-0006-0001	RAILWAY LOAD OUT PAD
H353004-10000-228-271-0007-0001	TOTE ROAD RE-ALIGNMENT
H353004-10000-228-271-0008-0001	SERVICE ROAD TO SEWER TREATMENT
H353004-30000-224-271-0020-0001	LINE PLAN AND LONGITUDINAL SECTION - CH. 102+240 TO CH. 106+880

APPROVED FOR CONSTRUCTION

REG. PROFESSIONAL

HATCH

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 106+900 TO CH. 109+229

PERMIT TO PRACTICE
HATCH LTD.

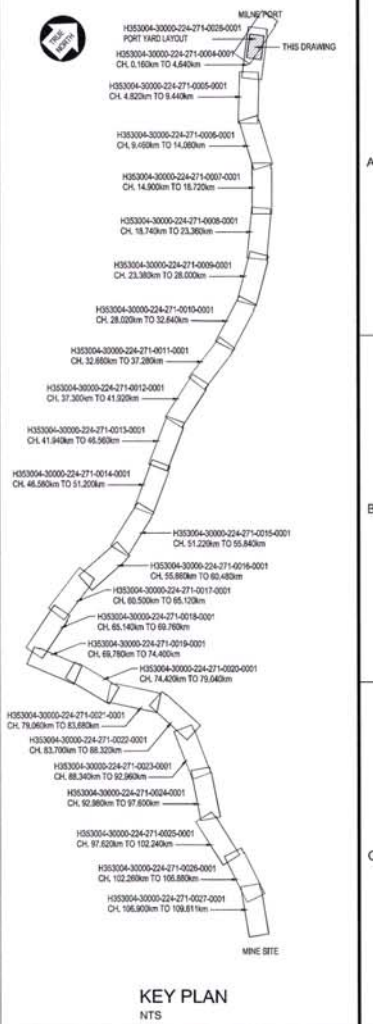
Signature: [Signature]
Date: 2017/01/07

PERMIT NUMBER: P-12
The Association of Professional Engineers, Geologists and Geoscientists of Newfoundland

SCALE: 1:5,000

REVISIONS

DRAWING APPROVAL STATUS: Approved for Construction



PERMIT TO PRACTICE
HATCH LTD.
Signature _____
Date _____
PERMIT NUMBER: P 512
The Association of Professional Engineers

